

# SEQUENCES

| SEQ ID         | Clone ID<br>Name                              | Sequence   |
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| SEQ ID<br>NO:1 | Round 1<br>(R1)<br>CD28BP-71<br>(Clone<br>71) | ATGGGTACACAATGAAGTGGGGATCACTACCACCCAAGCGCCCATGCCTCTGGCTCTCTC<br>AGCTCTTGGTGCTCACTGGTCTTTTTTACTTCTGTTTCAGGCATCACCCCAAAGAGTGTGAC<br>CAAAAGAGTGAAAGAAACAGTAATGCTATCCTGTGATTACAACACATCCACTGAAGAATG<br>ACAAGCCTTCGGATCTATTGGCAAAAGGATAGTAAAATGGTGTGGCCATCCTGCCTGGAA<br>AAGTGCAGGTGTGGCCTGAGTACAAGAACCGCACCATCACTGACATGAACGATAACCCCCG<br>TATTGTGATCCTGGCTCTGCGCCTGTGCGACAGTGGCACCTACACCTGTGTTATTTCAGAAG<br>CCTGTTTTGAAAGGGGCTTATAAATGGAGCACCTGGCTTCCGTGAGGTTAATGATCAGAG<br>CTGACTTCCCTGTCCCTACCATAAATGATCTTGAAATCCATCTCCTAATATCAGAAGGCT<br>AATTTGCTCAACCTCTGGAGGTTTTCCAAGGCCACCTCTACTGGTTGGAAAATGGAGAA<br>GAATTAAATGCTACCAACACAACACTGTCCCAAGATCCTGAAACCAAGCTCTACATGATTA<br>GCAGTGAACCTGGATTTCACATGACAAGCAATCACAGCTTCTTGTGTCTTGTCAAGTATGG<br>AGACTTAACAGTGTACAGACCTTCTACTGGCAAGAATCCAAACCAACCCCTTCTGCTAAT<br>CAGCACCTGACCTGGACATTATTATCCAGCTCAGCATTTGGGATTTCTGTGATCATTG<br>CAGTTATACTAACATGCCTGACCTGCAGAAATGCTGCAATACGCAGACAGAGAAGGGAGAA<br>TGAAGTGGAAATGCAAAGTTGCTCTCAGTCTCCATGA             |
| SEQ ID<br>NO:2 | Round 1<br>CD28BP-84<br>(Clone<br>84)         | ATGGGCCACACGCTGAGGCCGGGAACCTCCACTGCCAGGTGTCTACACCTCAAGCTCTGCC<br>TGCTCTTGGCGCTGGCGGGTCTCCACTTCTTTCAGGTATCAGCCAGGTACCAAGTCGGT<br>GAAAGAAATGGCAGCACTGTCTGTGATTACAACATTTCTATCGATGAACTGGCGAGAATG<br>CGCATATACTGGCAGAAGGACCAACAGATGGTGTGAGCATCATCTCTGGGCAAGTGGAAAG<br>TGTGGCCTGAGTACAAGAACCGCACCTTCCCGACATCATTAACAACCTCTCCCTTATGAT<br>CCTGGCACTGCGCCTGTGCGACAAGGGCACCTACACCTGCGTGGTTTCAAGAATGAGAAC<br>GGGTCTTTTCAAGCGGAGCACCTGACCTCCGTGACACTGTCCATCAGAGCTGACTCCCTG<br>TCCCTAGCATAACTGACATTGGACATCCCGCCCCCTAATGTGAAAAGGATAAGATGCTCCGC<br>CTCTGGAGGTTTTCCAGAGCCTCGCCTCGCCTGGATGGAAGATGGAGAAGAACTAAACGCC<br>GTCAACACGACGGTTGACCAGGATTGGACACGGAGCTCTACAGCGTCAGCAGTGAACCTGG<br>ATTTCAATGTGACAAATAACACAGCATCGTGTGTCTCATCAAATACGGGGAGCTGTCCGT<br>GTCACAGATCTTCCCTTGGAGCAAACCAAGCAGGAGCTCCCATTTGATCAGCTTCCATTC<br>TGGGTCAATTATCCCAGTAAGTGGTGTCTTGGTGTCTACTGCGGTAGTTCTCTACTGCCTGG<br>CCTGCAGACATGTTGCGAGGTGGAAAAGAACAAGAAGGAATGAAGAGACAGTGGGAACCTGA<br>AAGGCTGTCCCTATCTACTTAGGCTCTGCGCAATCCTCGGGCTGA |
| SEQ ID<br>NO:3 | Round 1<br>CD28BP-<br>118<br>(Clone<br>118)   | ATGGGCCACACGCTGAGGCCGGGAACCTCCACTGCCAGGTGTCTACACCTCAAGCTCTGCC<br>TGCTCTTGGCGCTGGCGGGTCTCCACTTCTTTCAGGTATCAGCCAGGTACCAAGTCGGT<br>GAAAGAAATGGCAGCACTGTCTGTGATTACAACATTTCTATCGATGAACTGGCGAGAATG<br>CGCATATACTGGCAGAAGGACCAACAGATGGTGTGAGCATCATCTCTGGGCAAGTGGAAAG<br>TGTGGCCTGAGTACAAAACCGCACCTTCCCGACATCATTAACAACCTCTCCCTTATGAT<br>CCTGGCACTGCGCCTGTGCGACAAGGGCACCTACACCTGCGTGGTTTCAAGAATGAGAAC<br>GGGTCTTTTCAAGCGGAGCACCTGACCTCCGTGACACTGTCCATCAGAGCTGACTTCCCTG<br>TCCCTAGCATAACTGACATTGGACATCCCGCCCCCTAATGTGAAAAGGATAAGATGCTCCGC<br>CTCTGGAGATTTTCCAGAGCCTCGCCTCGCCTGGATGGAAGATGGAGAAGAACTAAACGCC<br>GTCAACACGACGGTTGACCAGGATTGGACACGGAGCTCTACAGCGTCAGCAGTGAACCTGG<br>ATTTCAATGTGACAAATAACACAGCATCGTGTGTCTCATCAAATACGGGGAGCTGTCCGT<br>GTCACAGATCTTCCCTTGGAGCAAACCAAGCAGGAGCTCCCATTTGATCAGCTTCCATTC<br>TGGGTCAATTATCCCAGTAAGTGGTGTCTTGGTGTCTACTGCGGTAGTTCTCTACTGCCTGG<br>CCTGCAGACATGTTGCGAGGTGGAAAAGAACAAGAAGGAATGAAGAGACAGTGGGAACCTGA<br>AAGGCTGTCCCTATCTACTTAGGCTCTGCGCAATCCTCGGGCTGA |
| SEQ ID<br>NO:4 | Round 1<br>CD28BP-<br>126<br>(Clone<br>126)   | ATGGGTACACAATGAAGTGGGGATCACTACCACCCAAGCGCCCATGCCTCTGGCTCTCTC<br>AGCTCTTGGTGCTCACTGGTCTTTTTTACTTCTGTTTCAGGCATCACCCCAAAGAGTGTGAC<br>CAAAAGAGTGAAAGAAACAGTAATGCTATCCTGTGATTACAGCACATCCACTGAAGAATG<br>ACAAGCCTTCGGATCTATTGGCAAAAGGATAGTAAAATGGTGTGGCCATCCTGCCTGGAA<br>AAGTGCAGGTGTGGCCTGAGTACAAGAACCGCACCATCACTGACATGAACGATAACCCCCG<br>TATTGTGATCCTGGCTCTGCGCCTGTGCGACAGTGGCACCTACACCTGTGTTATTTCAGAAG<br>CCTGATTTGAAAGGGGCTTATAAATGGAGCACCTGACTTCCGTGAGGTTAATGATCAGAG<br>CTGACTTCCCTGTCCCTACCATAAATGATCTTGAAATCCATCTCCTAATATCAGAAGGCT<br>AATTTGCTCAACCTCTGGAGGTTTTCCAAGGCCACCTCTACTGGTTGGAAAATGGAGAA<br>GAATTAAATGCTACCAACACAACAGTTTCCCAAGATCCTGGAACCTGAGCTCTACATGATTA   |

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|                |                             | GCAGTGAACCTGGATTTCATATGTGACAAATAACCACAGCATCGTGTGTCTCATCAAATACGG<br>GGAGCTGTCTGGTGTACAGATCTTCCCTTGGAGCAAACCCAAGCAGGAGCCTCCCATTGAT<br>CAGCTTCCATTCTGGGTCATTATCCCAGTAAGTGGTGCTTTGGTGCTCACTGCGGTAGTTC<br>TCTACTGCCTGGCCTGCAGACATGTTGCGAGGTGGAAAAGAACAAGAAGGAATGAAGAGAC<br>AGTGGGAAC TGAAAGGCTGTCCCCCTATCTACTTAGGCTCTGCGCAATCCTCGGGCTGA   |
| SEQ ID<br>NO:5 | Round 2<br>(R2)<br>CD28BP-1 | ATGGGTCACACAATGAAGTGGGGATCACTACCACCCAAGCGCCCATGCCTCTGGCTCTCTC<br>AGCTCTTGGTGCTCACTGGTCTTTTTTACTTCTGTTTCAGGCATCACCCCAAAGAGTGTGAC<br>CAAAAGAGTGAAAGAAACAGTAATGCTATCTGTGATTACAGCACATCCACTGAAGAACTG<br>ACAAGCCTTCGGATCTATTGGCAAAAGGATAGTAAAATGGTGCTGGCCATCCTGCCTGGAA<br>AAGTGCAGGTGTGGCCTGAGTACAAGAACCGCACCATCACTGACATGAACGATAACCCCCG<br>TATTGTGATCCTGGCTCTGCGCCTGTGCGACAGTGGCACCTACACCTGTGTTATTTCAGAAG<br>CCTGTTTTTGAAAGGGGCTTATAAACTGGAGCACCTGGCTTCCGTGAGGTTAATGATCAGAG<br>CTGACTTCCCTGTCCCTACCATAAATGATCTTGGAAATCCATCTCCTAATATCAGAAGGCT<br>AATTTGCTCAACCTCTGGAGGTTTTTCCAAGGCCCCACCTCTACTGGTTGGAAAATGGAGAA<br>GAATTAATGCTACCAACACAACAGTTTCCCAAGATCCTGGAAC TGAGCTCTACATGATTA<br>GCAGTGAAC TGGATTTCATGTGACAAATAACCACAGCATCGTGTGTCTCATCAAATACGG<br>GGAGCTGTCTGGTGTACAGATCTTCCCTTGGAGCAAACCCAAGCAGGAGCCTCCCATTGAT<br>CAGCTTCCATTCTGGGTCATTATCCCAGTAAGTGGTGCTTTGGTGCTCACTGCGGTAGTTC<br>TCTACTGCCTGGCCTGCAGACATGTTGCGAGGTGGAAAAGAACAAGAAGGAATGAAGAGAC<br>AGTGGGAAC TGAAAGGCTGTCCCCCTATCTACTTAGGCTCCTGCGCAATCCTCGGGCTGA |
| SEQ ID<br>NO:6 | Round 2<br>CD28BP-2         | ATGGGTCACACAATGAAGTGGGGATCACTACCACCCAAGCGCCCATGCCTCTGGCTCTCTC<br>AGCTCTTGGTGCTCACTGGTCTTTTTTACTTCTGTTTCAGGCATCACCCCAAAGAGTGTGAC<br>CAAAAGAGTGAAAGAAACAGTAATGCTATCCTGTGATTACAGCACATCCACTGAAGAACTG<br>ACAAGCCTTCGGATCTATTGGCAAAAGGATAGTAAAATGGTGCTGGCCATCCTGCCTGGAA<br>AAGTGCAGGTGTGGCCTGAGTACAAGAACCGCACCATCACTGACATGAACGATAACCCCCG<br>TATTGTGATCCTGGCTCTGCGCCTGTGCGACAGTGGCACCTACACCTGTGTTATTTCAGAAG<br>CCTGTTTTTGAAAGGGGCTTATAAACTGGAGCACCTGGCTTCCGTGAGGTTAATGATCAGAG<br>CTGACTTCCCTGTCCCTACCATAAATGATCTTGGAAATCCATCTCCTAATATCAGAAGGCT<br>AATTTGCTCAACCTCTGGAGGTTTTTCCAAGGCCCCACCTCTACTGGTTGGAAAATGGAGAA<br>GAATTAATGCTACCAACACAACACTGTCCCAAGATCCTGAAACCAAGCTCTACATGATTA<br>GCAGTGAAC TGGATTTCATGTGACAAATAACCACAGCATCGTGTGTCTCATCAAATACGG<br>GGAGCTGTCTGGTGTACAGATCTTCCCTTGGAGCAAACCCAAGCAGGAGCCCCCATTGAT<br>CAGCTTCCATTCTGGGTCATTATCCCAGTAAGTGGTGCTTTGGTGCTCACTGCGGTAGTTC<br>TCTACCGCCCGGCTGCAGACATGTTGCGAGGTGGAAAAGAACAAGAAGGAATGAAGAGAC<br>AGTGGGAAC TGAAAGGCTGTCCCCCTATCTACTTAGGCTCTGCGCAATCCTCGGGCTGA    |
| SEQ ID<br>NO:7 | Round 2<br>CD28BP-3         | ATGGGTCACACAATGAAGTGGGGATCACTACCACCCAAGCGCCCATGCCTCTGGCTCTCTC<br>AGCTCTTGGTGCTCACTGGTCTTTTTTACTTCTGTTTCAGGCATCACCCCAAAGAGTGTGAC<br>CAAAAGAGTGAAAGAAACAGTAATGCTATCCTGTGATTACAACACATCCACTGAAGAACTG<br>ACAAGCCTTCGGATCTATTGGCAAAAGGATAGTAAAATGGTGCTGGCCATCCTGCCTGGAA<br>AAGTGCAGGTGTGGCCTGAGTACAAGAACCGCACCATCACTGACATGAACGATAACCCCCG<br>TATTGTGATCCTGGCTCTGCGCCTGTGCGACAGTGGCACCTACACCTGTGTTATTTCAGAAG<br>CCTGTTTTTGAAAGGGGCTTATAAACTGGAGCACCTGGCTTCCGTGAGGTTAATGATCAGAG<br>CTGACTTCCCTGTCCCTACCATAAATGATCTTGGAAATCCATCTCCTAATATCAGAAGGCT<br>AATTTGCTCAACCTCTGGAGGTTTTTCCAAGGCCCCACCTCTACTGGTTGGAAAATGGAGAA<br>GAATTAATGCTACCAACACAACAGTTTCCCAAGATCCTGGAAC TGAGCTCTACATGATTA<br>GCAGTGAAC TGGATTTCATGTGACAAATAACCACAGCATCGTGTGTCTCATCAAATACGG<br>GGAGCTGTCTGGTGTACAGATCTTCCCTTGGAGCAAACCCAAGCAGGAGCCTCCCATTGAT<br>CAGCTTCCATTCTGGGTCATTATCCCAGTAAGTGGTGCTTTGGTGCTCACTGCGGTAGTTC<br>TCTACTGCCTGGCCTGCAGACATGTTGCGAGGTGGAAAAGAACAAGAAGGAATGAAGAGAC<br>AGTGGGAAC TGAAAGGCTGTCCCCCTATCTACTTAGGCTCTGCGCAATCCTCGGGCTGA |
| SEQ ID<br>NO:8 | Round 2<br>CD28BP-4         | ATGGGTCACACAATGAAGTGGGGATCACTACCACCCAAGCGCCCATGCCTCTGGCTCTCTC<br>AGCTCTTGGTGCTCACTGGTCTTTTTTACTTCTGTTTCAGGCATCACCCCAAAGAGTGTGAC<br>CAAAAGAGTGAAAGAAACAGTAATGCTATCCTGTGATTACAACACATCCACTGAAGAACTG<br>ACAAGCCTTCGGATCTATTGGCAAAAGGATAGTAAAATGGTGCTGGCCATCCTGCCTGGAA<br>AAGTGCAGGTGTGGCCTGAGTACAAGAACCGCACCATCACTGACATGAACGATAACCCCCG<br>TATTGTGATCCTGGCTCTGCGCCTGTGCGACAGTGGCACCTACACCTGTGTTATTTCAGAAG<br>CCTGTTTTTGAAAGGGGCTTATAAACTGGAGCACCTGGCTTCCGTGAGGTTAATGATCAGAG<br>CTGACTTCCCTGTCCCTACCATAAATGATCTTGGAAATCCATCTCCTAATATCAGAAGGCT<br>AATTTGCTCAACCTCTGGAGGTTTTTCCAAGGCCCCACCTCTACTGGTTGGAAAATGGAGAA<br>GAATTAATGCTACCAACACAACAGTTTCCCAAGATCCTGGAAC TGAGCTCTACATGATTA<br>GCAGTGAAC TGGATTTCATGTGACAAATAACCACAGCATCGTGTGTCTCATCAAATACGG<br>GGAGCTGTCTGGTGTACAGATCTTCCCTTGGAGCAAACCCAAGCAGGAGCCTCCCATTGAT<br>CAGCTTCCATTCTGGGTCATTATCCCAGTAAGTGGTGCTTTGGTGCTCACTGCGGTAGTTC<br>TCTACTGCCTGGCCTGCAGACATGTTGCGAGGTGGAAAAGAACAAGAAGGAATGAAGAGAC<br>AGTGGGAAC TGAAAGGCTGTCCCCCTATCTACTTAGGCTCTGCGCAATCCTCGGGCTGA |

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|                 |                     | GAATTAAATGCTACCAACACAACAGTTTCCCAAGATCCTGGAAGTCTGAGCTCTACATGATTA<br>GCAGTGAAGTGGATTTCAATGTGACAAATAACACAGCATCGTGTGTCTCATCAAATACGG<br>GGAGCTGTGCGGTGTACAGATCTTCCCTTGGAGCAAACCAAGCAGGAGCCTCCCATTGAT<br>CAGCTTCCATTCTGGGTGCTTATCCCAGTAAGTGGTGCTTTGGTGCTCACTGCGGTAGTTC<br>TCTACTGCCTGGCCTGCAGACATGTTGCGAGGTGGAAAAGAACAAGAAGGAATGAAGAGAC<br>AGTGGGAAGTGAAGGCTGTCCCTATCTACTTAGGCTCTGCGCAATCCTCGGGCTGA   |
| SEQ ID<br>NO:9  | Round 2<br>CD28BP-5 | ATGGGTCACACAATGAAGTGGGGATCACTACCACCAAGCGCCCATGCCTCTGGCTCTCTC<br>AGCTCTTGGTGCTCACTGGTCTTTTTTACTTCTGTTCAGGCATCACCCCAAAGAGTGTGAC<br>CAAAAGAGTGAAAGAAACAGTAATGCTATCCTGTGATTACAGCACATCCACTGAAGAACTG<br>ACAAGCCTTCGGATCTATTGGCAAAGGATAGTAAAATGGTGCTGGCCATCCTGCCTGGAA<br>AAGTGCAGGTGTGGCCTGAGTACAAGAACCGCACCATCACTGACATGAACGATAACCCCCG<br>TATTGTGATCCTGGCTCTGCGCCTGTGCGACAAGGCGACCTACACCTGCGTGGTTTTCAGAAG<br>CCTGTTTTGAAAGGGGCTTATAAACTGGAGCACCTGACTTCCGTGAGGTTAATGATCAGAG<br>CTGACTTCCCTGTCCCTACCATAAATGATCTTGGAAATCCATCTCCTAATATCAGAAGGCT<br>AATTTGCTCAACCTCTGGAGGTTTTTCCAAGGCCCCACCTCTACTGGTTGGAAAATGGAGAA<br>GAATTAAATGCTACCAACACAACAGTTTCCCAAGATCCTGGAAGTCTGAGCTCTACATGATTA<br>GCAGTGAAGTGGATTTCAATGTGACAAATAACACAGCATCGTGTGTCTCATCAAATACGG<br>GGAGCTGTGCGGTGTACAGATCTTCCCTTGGAGCAAACCAAGCAGGAGCCTCCCATTGAT<br>CAGCTTCCATTCTGGGTGCTTATCCCAGTAAGTGGTGCTTTGGTGCTCACTGCGGTAGTTC<br>TCTACTGCCTGGCCTGCAGGCATGTTGCGAGGTGGAAAAGAACAAGAAGGAATGAAGAGAC<br>AGTGGGAAGTGAAGGCTGTCCCTATCTACTTAGGCTCTGCGCAATCCTCGGGCTGA |
| SEQ ID<br>NO:10 | Round 2<br>CD28BP-6 | ATGGGTCACACAATGAAGTGGGGATCACTACCACCAAGCGCCCATGCCTCTGGCTCTCTC<br>AGCTCTTGGTGCTCACTGGTCTTTTTTACTTCTGTTCAGGCATCACCCCAAAGAGTGTGAC<br>CAAAAGAGTGAAAGAAACAGTAATGCTATCCTGTGATTACAACACATCCACTGAAGAACTG<br>ACAAGCCTTCGGATCTATTGGCAAAGGATAGTAAAATGGTGCTGGCCATCCTGCCTGGAA<br>AAGTGCAGGTGTGGCCTGAGTACAAGAACCGCACCATCACTGACATGAACGATAACCCCCG<br>TATTGTGATCCTGGCTCTGCGCCTGTGCGACAGTGGCACCTACACCTGTGTTATTTCAGAAG<br>CCTGTTTTGAAAGGGGCTTATAAACTGGAGCACCTGGCTTCCGTGAGGTTAATGATCAGAG<br>CTGACTTCCCTGTCCCTACCATAAATGATCTTGGAAATCCATCTCCTAATATCAGAAGGCT<br>AATTTGCTCAACCTCTGGAGGTTTTTCCAAGGCCCCACCTCTACTGGTTGGAAAATGGAGAA<br>GAATTAAATGCTACCAACACAACAGTTTCCCAAGATCCTGGAAGTCTGAGCTCTACATGATTA<br>GCAGTGAAGTGGATTTCAATGTGACAAATAACACAGCATCGTGTGTCTCATCAAATACGG<br>GGAGCTGTGCGGTGTACAGATCTTCCCTTGGAGCAAACCAAGCAGGAGCCTCCCATTGAT<br>CAGCTTCCATTCTGGGTGCTTATCCCAGTAAGTGGTGCTTTGGTGCTCACTGCGGTAGTTC<br>TCTACTGCCTGGCCTGCAGACATGTTGCGAGGTGGAAAAGAACAAGAAGGAATGAAGAGAC<br>AGTGGGAAGTGAAGGCTGTCCCTATCTACTTAGGCTCTGCGCAATCCTCGGGCTGA  |
| SEQ ID<br>NO:11 | Round 2<br>CD28BP-7 | ATGGGTCACACAATGAAGTGGAGATCACTACCACCAAGCGCCCATGCCTCTGGCTCTCTC<br>AGCTCTTGGTGCTCACTGGTCTTTTTTACTTCTGTTCAGGCATCACCCCAAAGAGTGTGAC<br>CAAAAGAGTGAAAGAAACAGTAATGCTATCCTGTGATTACAACACATCCACTGAAGAACTG<br>ACAAGCCTTCGGATCTATTGGCAAAGGATAGTAAAATGGTGCTGGCCATCCTGCCTGGAA<br>AAGTGCAGGTGTGGCCTGAGTACAAGAACCGCACCATCACTGACATGAACGATAACCCCCG<br>TATTGTGATCCTGGCTCTGCGCCTGTGCGACAGTGGCACCTACACCTGTGTTATTTCAGAAG<br>CCTGTTTTGAAAGGGGCTTATAAACTGGAGCACCTGGCTTCCGTGAGGTTAATGATCAGAG<br>CTGACTTCCCTGTCCCTACCATAAATGATCTTGGAAATCCATCTCCTAATATCAGAAGGCT<br>AATTTGCTCAACCTCTGGAGGTTTTTCCAAGGCCCCACCTCTACTGGTTGGAAAATGGAGAA<br>GAATTAAATGCTACCAACACAACAGTTTCCCAAGATCCTGGAAGTCTGAGCTCTACATGATTA<br>GCAGTGAAGTGGATTTCAATGTGACAAATAACACAGCATCGTGTGTCTCATCAAATACGG<br>GGAGCTGTGCGGTGTACAGATCTTCCCTTGGAGCAAACCAAGCAGGAGCCTCCCATTGAT<br>CAGCTTCCATTCTGGGTGCTTATCCCAGTAAGTGGTGCTTTGGTGCTCACTGCGGTAGTTC<br>TCTACTGCCTGGCCTGCAGACATGTTGCGAGGTGGAAAAGAACAAGAAGGAATGAAGAGAC<br>AGTGGGAAGTGAAGGCTGTCCCTATCTACTTAGGCTCTGCGCAATCCTCGGGCTGA  |
| SEQ ID<br>NO:12 | Round 2<br>CD28BP-8 | ATGGGTCACACAATGAAGTGGGGATCACTACCACCAAGCGCCCATGCCTCTGGCTCTCTC<br>AGCTCTTGGTGCTCACTGGTCTTTTTTACTTCTGTTCAGGCATCACCCCAAAGAGTGTGAC<br>CAAAAGAGTGAAAGAAACAGTAATGCTATCCTGTGATTACAACACATCCACTGAAGAACTG<br>ACAAGCCTTCGGATCTATTGGCAAAGGATAGTAAAATGGTGCTGGCCATCCTGCCTGGAA<br>AAGTGCAGGTGTGGCCTGAGTACAAGAACCGCACCATCACTGACATGAACGATAACCCCCG<br>TATTGTGATCCTGGCTCTGCGCCTGTGCGACAGTGGCACCTACACCTGTGTTATTTCAGAAG<br>CCTGTTTTGAAAGGGGCTTATAAACTGGAGCACCTGGCTTCCGTGAGGTTAATGATCAGAG<br>CTGACTTCCCTGTCCCTACCATAAATGATCTTGGAAATCCATCTCCTAATATCAGAAGGCT<br>AATTTGCTCAACCTCTGGAGGTTTTTCCAAGGCCCCACCTCTACTGGTTGGAAAATGGAGAA<br>GAATTAAATGCTACCAACACAACAGTTTCCCAAGATCCTGGAAGTCTGAGCTCTACATGATTA<br>GCAGTGAAGTGGATTTCAATGTGACAAATAACACAGCATCGTGTGTCTCATCAAATACGG<br>GGAGCTGTGCGGTGTACAGATCTTCCCTTGGAGCAAACCAAGCAGGAGCCTCCCATTGAT<br>CAGCTTCCATTCTGGGTGCTTATCCCAGTAAGTGGTGCTTTGGTGCTCACTGCGGTAGTTC<br>TCTACTGCCTGGCCTGCAGACATGTTGCGAGGTGGAAAAGAACAAGAAGGAATGAAGAGAC<br>AGTGGGAAGTGAAGGCTGTCCCTATCTACTTAGGCTCTGCGCAATCCTCGGGATGA  |

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|                 |                      | AAGATGCTCCGCCTCTGGAGGTTTTCCAGAGCCTCGCCTCGCCTGGATGGAAGATGGAGAA<br>GAACTAAACGCCGTCAACACGACGGTTGACCAGGATTTGGACACGGAGCTCTACAGCGTCA<br>GCAGTGAAGTGGATTCCAATGTGACAAATAACCACAGCATCGTGTGTCTCATCAAATACGG<br>GGAGCTGTCGGTGTACAGATCTTCCCTTGGAGCAAACCCAAGCAGGAGCCTCCCATTTGAT<br>CAGCTTCCATTCTGGGTCAATTATCCCAGTAAGTGGTGCCTTTGGTGTCTACTGCGGTAGTTC<br>TCTACTGCCTGGCCTGCAGACATGTTGCGAGGTGGAAAAGAACAAGAAGGAATGAAGAGAC<br>AGTGGGAACTGAAAGGCTGTCCCTATCTACTTAGGCTCTGCGCAATCCTCGGGCTGA  |
| SEQ ID<br>NO:13 | Round 2<br>CD28BP-9  | ATGGGTACACAATGAAGTGGGGATCACTACCACCCAAGCGCCCATGCCTCTGGCTCTCTC<br>AGCTCTTGGTGTCTACTGGTCTTTTTTACTTCTGTTCAGGCATCACCCCAAAGAGTGTGAC<br>CAAAAGAGTGAAAGAAACAGTAATGCTATCCTGTGATTACAACACATCCACTGAAGAACTG<br>ACAAGCCTTCGGATCTATTGGCAAAAGGATAGTAAAATGGTGTGGCCATCCTGCCTGGAA<br>AAGTGCAGGTGTGGCCTGAGTACAAGAACCGCACCATCACTGACATGAACGATAACCCCCG<br>TATTGTGATCCTGGCTCTGCGCCTGTGCGACAGTGGCACCTACACCTGTGTTATTTCAGAAG<br>CCTGTTTTGAAAGGGGCTTATAAACTGGAGCACCTGGCTTCCGTGAGGTTAATGATCAGAG<br>CTGACTTCCCTGTCCCTACCATAAAATGATCTTGGAAATCCATCTCCTAATATCAGAAGGCT<br>AATTTGCTCAACCTCTGGAGGTTTTCCAAGGCCCCACCTCTACTGGTTGGAAAATGGAGAA<br>GAATTAAATGCTACCAACACAACAGTTTTCCAAGATCCTGGAAGTGGAGTCTACATGATTA<br>GCAGTGAAGTGGATTCAATGTGACAAATAACCACAGCATCGTGTGTCTCATCAAATACGG<br>GGAGCTGTCGGTGTACAGATCTTCCCTTGGAGCAAACCCAAGCAGGAGCCTCCCATTTGAT<br>CAGCTTCCATTCTGGGTCAATTATCCCAGTAAGTGGTGCCTTTGGTGTCTACTGCGGTAGTTC<br>TCTACTGCCTGGCCTGCAGACATGTTGCGAGGTGGAAAAGAACAAGAAGGAATGAAGAGAC<br>AGTGGGAACTGAAAGGCTGTCCCTATCTACTTAGGCTCTGCGCAATCCTCGGGCTGA |
| SEQ ID<br>NO:14 | Round 2<br>CD28BP-10 | ATGGGTACACAATGAAGTGGCGATCACTACCACCCAAGCGCCCATGCCTCTGGCTCTCTC<br>AGCTCTTGGTGTCTACTGGTCTTTTTTACTTCTGTTCAGGCATCACCCCAAAGAGTGTGAC<br>CAAAAGAGTGAAAGAAACAGTAATGCTATCCTGTGATTACAGCACATCCACTGAGGAAGT<br>ACAAGCCTTCGGATCTATTGGCAAAAGGATAGTAAAATGGTGTGGCCATCCTGCCTGGAA<br>AAGTGCAGGTGTGGCCTGAGTACAAGAACCGCACCATCACTGACATGAACGATAACCCCCG<br>TATTGTGATCCTGGCTCTGCGCCTGTGCGACAGTGGCACCTACACCTGTGTTATTTCAGAAG<br>CCTGTTTTGAAAGGGGCTTATAAACTGGAGCACCTGACTTCCGTGAGGTTAATGATCAGAG<br>CTGACTTCCCTGTCCCTACCATAAAATGATCTTGGAAATCCATCTCCTAATATCAGAAGGCT<br>AATTTGCTCAACCTCTGGAGGTTTTCCAAGGCCCCACCTCTACTGGTTGGAAAATGGAGAA<br>GAATTAAATGCTACCAACACAACACTGTCCCAAGATCCTGGAAGTGGAGTCTACATGATTA<br>GCAGTGAAGTGGATTCAATGTGACAAATAACCACAGCATCGTGTGTCTCATCAAATACGG<br>GGAGCTGTGCGTGTACAGATCTTCCCTTGGAGCAAACCCAAGCAGGAGCCTCCCATTTGAT<br>CAGCTTCCATTCTGGGTCAATTATCCCAGTAAGTGGTGCCTTTGGTGTCTACTGCGGTAGTTC<br>TCTACTGCCTGGCCTGCAGACATGTTGCGAGGTGGAAAAGAACAAGAAGGAATGAAGAGAC<br>AGTGGGAACTGAAAGGCTGTCCCTATCTACTTAGGCTCTGCGCAATCCTCGGGCTGA  |
| SEQ ID<br>NO:15 | Round 2<br>CD28BP-11 | ATGGGTACACAATGAAGTGGGGATCACTACCACCCAAGCGCCCATGCCTCTGGCTCTCTC<br>AGCTCTTGGTGTCTACTGGTCTTTTTTACTTCTGTTCAGGCATCACCCCAAAGAGTGTGAC<br>CAAAAGAGTGAAAGAAACAGTAATGCTATCCTGTGATTACAACGCATCCACTGAAGAAGT<br>ACAAGCCTTCGGATCTATTGGCAAAAGGATAGTAAAATGGTGTGGCCATCCTGCCTGGAA<br>AAGTGCAGGTGTGGCCTGAGTACAAGAACCGCACCATCACTGACATGAACGATAACCCCCG<br>TATTGTGATCCTGGCTCTGCGCCTGTGCGACAAGGGCACCTACACCTGCGTGGTTTCAGAAG<br>AATGAGAACGGGTCTTTCAGACGGGAGCACCTGACCTCCGTGACACTGTCCATCAGAGCTG<br>ACTTCCCTGTCCCTAGCATAACTGACATTGGACATCCCGCCCCCTAATGTGAAAAGGATAAG<br>ATGCTCCGCCTCTGGAGGTTTTCCAGAGCCTCGCCTCGCCTGGATGGAAGATGGAGAAGAA<br>CTAAACGCCGTCAACACGACGGTTGACCAGGATTTGGACACGGAGCTCTACAGCGTCAGCA<br>GTGAACTGGATTTCAATGTGACAAATAACCACAGCATCGTGTGTCTCATCAAATACGGGA<br>GCTGTGCGGTGTACAGATCTTCCCTTGGAGCAAACCCAAGCAGGAGCCTCCCATTTGATCAG<br>CTTCCATTCTGGGTCAATTATCCCAGTAAGTGGTGCCTTTGGTGTCTACTGCGGTAGTTCTCT<br>CTGCCTGGCCTGCAGACATGTTGCGAGGTGGAAAAGAACAAGAAGGAATGAAGAGACAGT<br>GGGAACTGAAAGGCTGTCCCTATCTACTTAGGCTCTGCGCAATCCTCGGGCTGA     |
| SEQ ID<br>NO:16 | Round 2<br>CD28BP-12 | ATGGGTACACAATGAAGTGGGGATCACTACCACCCAAGCGCCCATGCCTCTGGCTCTCTC<br>AGCTCTTGGTGTCTACTGGTCTTTTTTACTTCTGTTCAGGCATCACCCCAAAGAGTGTGAC<br>CAAAAGAGTGAAAGAAACAGTAATGCTATCCTGTGATTACAGCACATCCACTGAAGAAGT<br>ACAAGCCTTCGGATCTATTGGCAAAAGGATAGTAAAATGGTGTGGCCATCCTGCCTGGAA<br>AAGTGCAGGTGTGGCCTGAGTACAAGAACCGCACCATCACTGACATGAACGATAACCCCCG<br>TATTGTGATCCTGGCTCTGCGCCTGTGCGACAGTGGCACCTACACCTGTGTTATTTCAGAAG<br>CCTGTTTTGAAAGGGGCTTATAAACTGGAGCACCTGGCTTCCGTGAGGTTAATGATCAGAG  |



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|                 |                      | CTGACTTCCCTGTCCCTACCATAAATGATCTTGGAAATCCATCTCCTTAATATCAGAAGGCT<br>AATTTGCTCAACCTCTGGAGGTTTTTCCAAGGCCACCTCTACTGGTTGGAAGTGGAGAA<br>GAATTAATGACTACCAACACAACAGTTTCCCAAGATCTTGGAAGTGAAGTCTACATGATTA<br>GCAGTGAAGTGGATTCAATGTGACAAATAACCACAGCATCGTGTGTCTCATCAATACGG<br>GGAGCTGTGCGGTGTACAGATCTTCCCTTGGAGCAAACCCAAGCAGGAGCCTCCCATTGAT<br>CAGCTTCCATTCTGGGTCAATTATCCCAGTAAGTGGTGCCTTGGTGTCTACTGCGGTAGTTC<br>TCTACTGCCTGGCCTGCAGACATGTTGCGAGGTGGAAGAAACAAGAAGGAATGAAGAGAC<br>AGTGGGAAGTGAAGGCTGTCCCTATCTACTTAGGCTCTGCGCAATCCTCGGGCTGA  |
| SEQ ID<br>NO:17 | Round 2<br>CD28BP-13 | ATGGGTACACAATGAAGTGGGGATCACTACCACCAAGCGCCCATGCCTCTGGCTCTCTC<br>AGCTCTTGGTGCTCACTGGTCTTTTTTACTTCTGTTCAGGCATACCCCAAAGAGTGTGAC<br>CAAAAGAGTGAAAGAAACAGTAATGCTATCCTGTGATTACAGCACATCCACTGAAGAACTG<br>ACTAGCCTTCGGATCTATTGGCAAAAGGATAGTAAATGGTGTGGCCATCCTGCCTGGAA<br>AAGTGCAGGTGTGGCCTGAGTACAAGAACCGCACCATCACTGACATGAACGATAACCCCCG<br>TATTGTGATCCTGGCTCTGCGCCTGTGCGACAGTGGCACCTACACCTGTGTTATTTCAGAAG<br>CCTGTTTTGAAAGGGGCTTATAAACTGGAGCACCTGGCTTCCGTGAGGTTAATGATCAGAG<br>CTGACTTCCCTGTCCCTACCATAAATGATCTTGGAAATCCATCTCCTAATATCAGAAGGCT<br>AATTTGCTCAACCTCTGGAGGTTTTTCCAGAGCCTCGCTCGCTGGATGGAAGATGGAGAA<br>GAACATAACGCCGTCAACACGACGGTTGACCAGGATTTGGACACGGAGCTCTACAGCGTCA<br>GCAGTGAAGTGGATTTCATGTGACAAATAACCACAGCATCGTGTGTCTCATCAATACGG<br>GGAGCTGTGCGGTGTACAGATCTTCCCTTGGAGCAAACCCAAGCAGGAGCCTCCCATTGAT<br>CAGCTTCCATTCTGGGTCAATTATCCCAGTAAGTGGTGCCTTGGTGTCTACTGCGGTAGTTC<br>TCTACTGCCTGGCCTGCAGACATGTTGCGAGGTGGAAGAAACAAGAAGGAATGAAGAGAC<br>AGTGGGAAGTGAAGGCTGTCCCTATCTACTTAGGCTCTGCGCAATCCTCGGGCTGA     |
| SEQ ID<br>NO:18 | Round 2<br>CD28BP-14 | ATGGGCCACACGCTGAGGCCGGGAAGTCCACTGCCAGGTGTCTACACCTCAAGCTCTGCC<br>TGCTCTTGGCGCTGGCGGGTCTCCACTTCTCTTCAAGTATCAGCCAGGTCAACAGTCTGGT<br>GAAAGATAATGGCGGCACGTGCTGTGATTACAACATTTCTATCGATGAAGTGGCGAGAATG<br>CGCATATACTGGCAGAAGGACCAACAGATGGTGTGCTGAGCATCATCTCTGGGCAAGTGAAG<br>TGTGGCCTGAGTACAAGAACCGCACCATCACTGACATGAACGATAACCCCCGTATTGTGAT<br>CCTGGCTCTGCGCCTGTGCGACAGTGGCACCTACACCTGTGTTATTTCAGAAGCCTGTTTTG<br>AAAGGGGCTTATAAACTGGAGCACCTGGCTTCCGTGAGGTTAATGATCAGAGCTGACTTCC<br>CTGTCCCTACCATAAATGATCTTGGAAATCCATCTCCTAATATCAGAAGGCTAATTTGCTC<br>AACCTCTGGAGGTTTTTCCAAGGCCCCACCTCTACTGGTTGGAAAATGGAGAAGAATTAAT<br>GCTACCAACACAACAGTTTCCCAAGATCTTGAAGTGTGATGAGTCTACATGATTAGCAGTGAAC<br>TGGATTTCATGTGACAAATAACCACAGCATCGTGTGTCTCATCAATACGGGGAGCTGTC<br>GGTGTACAGATCTTCCCTTGGAGCAAACCCAAGCAGGAGCCTCCCATTGATCAGCTTCCA<br>TTCTGGGTCAATTATCCCAGTAAGTGGTGCCTTGGTGTCTACTGCGGTAGTTCCTACTGCC<br>TGGCCTGCAGACATGTTGCGAGGTGGAAGAAACAAGAAGGAATGAAGAGACAGTGGGAAC<br>TGAAAGGCTGTCCCTATCTACTTAGGCTCTGCGCAATCCTCGGGCTGA      |
| SEQ ID<br>NO:19 | Round 2<br>CD28BP-15 | ATGGGTACACAATGAAGTGGGGATCACTACCACCAAGCGCCCATGCCTCTGGCTCTCTC<br>AGCTCTTGGTGCTCACTGGTCTTTTTTACTTCTGTTCAGGCATACCCCAAAGAGTGTGAC<br>CAAAAGAGTGAAAGAAACAGTAATGCTATCCTGTGATTACAACACATCCACTGAAGAACTG<br>ACAAGCTTCCGATCTATTGGCAAAAGGATAGTAAATGGTGTGGCCATCCTGCCTGGAA<br>AAGTGCAGGTGTGGCCTGAGTACAAGAACCGCACCATCACTGACATGAACGATAACCCCCG<br>TATTGTGATCCTGGCTCTGCGCCCGTGGACAGTGGCACCTACACCTGTGTTATTTCAGAAG<br>CCTGTTTTGAAAGGGGCTTATAAACTGGAGCACCTGGCTTCCGTGAGGTTAATGATCAGAG<br>CTGACTTCCCTGTCCCTACCATAAATGATCTTGGAAATCCATCTCCTAATATCAGAAGGCT<br>AATTTGCTCAACCTCTGGAGGTTTTTCCAAGGCCCCACCTCTACTGGTTGGAAAATGGAGAA<br>GAATTAATGCTACCAACACAACAGTTTCCCAAGATCCTGGAAGTGTGATGAGTCTACATGATTA<br>GCAGTGAAGTGGATTTCATGTGACAAATAACCACAGCATCGTGTGTCTCATCAATACGG<br>GGAGCTGTGCGGTGTACAGATCTTCCCTTGGAGCAAACCCAAGCAGGAGCCTCCCATTGAT<br>CAGCTTCCATTCTGGGTCAATTATCCCAGTAAGTGGTGCCTTGGTGTCTACTGCGGTAGTTC<br>TCTACTGCCTGGCCTGCAGACATGTTGCGAGGTGGAAGAAACAAGAAGGAATGAAGAGAC<br>AGTGGGAAGTGAAGGCTGTCCCTATCTACTTAGGCTCTGCGCAATCCTCGGGCTGA  |
| SEQ ID<br>NO:20 | Round 2<br>CD28BP-16 | ATGGGTACACAATGAAGTGGGGATCACTACCACCAAGCGCCCATGCCTCTGGCTCTCTC<br>AGCTCTTGGTGCTCACTGGTCTTTTTTACTTCTGTTCAGGCATACCCCAAAGAGTGTGAC<br>CAAAAGAGTGAAAGAAACAGTAATGCTATCCTGTGATTACAACACATCCACTGAAGAACTG<br>ACAAGCCTTCGGATCTATTGGCAAAAGGATAGTAAATGGTGTGGCCATCCTGCCTGGAA<br>AAGTGCAGGTGTGGCCTGAGTACAAGAACCGCACCATCACTGACATGAACGATAACCCCCG<br>TATTGTGATCCTGGCTCTGCGCCCGTGGACAGTGGCACCTACACCTGTGTTATTTCAGAAG<br>CCTGTTTTGAAAGGGGCTTATAAACTGGAGCACCTGGCTTCCGTGAGGTTAATGATCAGAG<br>CTGACTTCCCTGTCCCTACCATAAATGATCTTGGAAATCCATCTCCTAATATCAGAAGGCT<br>AATTTGCTCAACCTCTGGAGGTTTTTCCAAGGCCCCACCTCTACTGGTTGGAAAATGGAGAA<br>GAATTAATGCTACCAACACAACAGTTTCCCAAGATCCTGGAAGTGTGATGAGTCTACATGATTA<br>GCAGTGAAGTGGATTTCATGTGACAAATAACCACAGCATCGTGTGTCTCATCAATACGG<br>GGAGCTGTGCGGTGTACAGATCTTCCCTTGGAGCAAACCCAAGCAGGAGCCTCCCATTGAT<br>CAGCTTCCATTCTGGGTCAATTATCCCAGTAAGTGGTGCCTTGGTGTCTACTGCGGTAGTTC<br>TCTACTGCCTGGCCTGCAGACATGTTGCGAGGTGGAAGAAACAAGAAGGAATGAAGAGAC<br>AGTGGGAAGTGAAGGCTGTCCCTATCTACTTAGGCTCTGCGCAATCCTCGGGCTGA |

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|                 |                              | CCTGTTTGTGAAAGGGGCTTATAAACTGGAGCACCTGACTTCCGTGAGGTTAATGATCAGAG<br>CTGACTTCCCTGTCCCTACCATAAAATGATCTTGGAAATCCATCTCCTAATATCAGAAGGCT<br>AATTTGCTCAACCTCTGGAGGTTTTCCAAGGCCCCACCTCTACTGGTTGGAAAATGGAGAA<br>GAATTAATGCTACCAACACAACAGTTTCCCAAGATCCTGGAACAGCTCTACATGATTA<br>GCAGTGAACCTGGATTTCATGTGACAAATAACCACAGCATCGTGTGTCTCATCAAATACGG<br>GGAGCTGTGGGTGTACAGATCTTCCCTTGGAGCAAACCCAAGCAGGAGCCTCCCATTGAT<br>CAGCTTCCATTCTGGGTCAATTATCCAGTAAGTGGTGCTTTGGTGCTCGCTGCGGTAGTTC<br>TCTACTGCCTGGCCTGCAGACATGTTGCGAGGTGGAAAAGAACAAGAAGGAATGAAGAGAC<br>AGTGGGAACTGAAAGGCTGTCCCTTATCTACTTAGGCTCTGCGCAATCCTCGGGCTGA  |
| SEQ ID<br>NO:21 | Round 2<br>CD28BP-17         | ATGGGTCACACAATGAAGTGGGGATCACTACCACCAAGCGCCCATGCCTCTGGCTCTCTC<br>AGCTCTTGGTGCTCACTGGTCTTTTTTACTTCTGTTCAGGCATCACCCAAAGAGTGTGAC<br>CAAAAGAGTGAAAGAAACAGTAATGCTATCCTGTGATTACAGCACATCCACTGAAGAAGT<br>ACAAGCCTTCGGATCTATTGGCAAAGGATAGTAAATGGTGCTGGCCATCCTGCCTGGAA<br>AAGTGCAGGTGTGGCCTGAGTACAAAACCGCACCTTCCCCGACATCATTAACAACCTCTC<br>CCTTATGATCCTGGCACTGCGCCTGTGCGACAAGGGCACCTACACCTGCGTGGTTTCAAG<br>AATGAGAACGGGTCTTTCAGACGGGAGCACCTGACCTCCGTGACACTGTCCATCAGAGCTG<br>ACTTCCCTGTCCCTAGCATAACTGACATTGGACATCCCGCCCCCTAATGTGAAAAGGATAAG<br>ATGCTCCGCTCCGGAGATTTTCCAGAGCCTCGCCTCGCCTGGATGGAAGATGGAGAAGAA<br>CTAAACGCCGTCAACACGACGGTTGACCAGGATTTGGACACGGAGCTCTACAGCGTCAGCA<br>GTGAACTGGATTTCAATGTGACAAATAACCACAGCATCGTGTGTCTCATCAAATACGGGGA<br>GCTGTGCGGTGTACAGATCTTCCCTTGGAGCAAACCCAAGCAGGAGCCTCCCATTGATCAG<br>CTTCCATTCTGGGTCAATTATCCAGTAAGTGGTGCTTTGGTGCTCACTGTGGTAGTTCTCT<br>ACTGCCTGGCCTGCAGACATGTTGCGAGGTGGAAAAGAACAAGAAGGAATGAAGAGACAGT<br>GGAACTGAAAGGCTGTCCCTTATCTACTTAGGCTCTGCGCAATCCTCGGGCTGA |
| SEQ ID<br>NO:22 | Round 1<br>(R1)<br>CTLA4BP-5 | ATGGGCCACACACGGAGGCAGGGAATATCACCATCCAAGTGTCATACCTCAAGTTCTTTT<br>AGCTCTTGGTGCTGGCTGGTCTTTCTCACTTCTGTTCAGGTGTTATCCACGTGACCAAGGA<br>AGTGAAAGAAGTGGCAACGCTGTCTGTGGTCACAATGTTTCTGTTGAAGAGCTGGCACAA<br>ACTCGCATCCACTGGCAAAGGAGAAGAAAATGGTGCTGACTATGATGTCTGGGGACATGA<br>ATATATGGCCCGAGTACAAGAACCGGACCATCTTTGATATCACTAATAACCTCTCCATTGT<br>GATTCTGGCTCTGCGCCCATCTGACGAGGGCACATACGAGTGTGTTGTTCTGAAGTATGAA<br>AAAGATGCTTTCAAGCGGGAACACCTGGCTGAAGTGACGTTATCAGTCAAAGCTGACTTCC<br>CTACACCTAGTATATCTGACTTTGAAATTCCACCTTCTAACATTAGAAGGATAAATTGCTC<br>AACCTCTGGAGGTTTTCTGAGCCTCACCTCTCCTGGCTGGAAAATGGAGAAGAATTAAAT<br>GCCATCAACACAACAGTTTCCCAAGATCCTGGAAGTGAAGTCTATACCTGTTAGCAGCAAAC<br>TGGATTTCAATATGACAACCAACCACAGCTTCATGTGTCTCATCAAGTATGGACATTTAAG<br>AGTGAATCAGACCTTCAACTGGAATACACCCAAGCAAGAGCATTTTCTCTGATAACCTGCTC<br>CCATCCTGGGCCATTACCTTAATCTCAGTAAATGGAATTTTGTGTATATGCTGCCTGACCT<br>ACTGCTTTGCCCCAAGATGCAGAGAGAGAAGGAGGAATGAGAGATTGAGAAGGGAAAGTGT<br>ACGCCCTGTATGA                                     |
| SEQ ID<br>NO:23 | Round 1<br>CTLA4BP-7         | ATGGGCCACACACGGAGGCAGGGAATATCACCATCCAAGTGTCATACCTCAATTTCTTTT<br>AGCTCTTGGTGCTGGCTTGTCTTTCTCATTTCTGTTCAGGTGTTATCCACGTGACCAAGGA<br>AGTGAAAGAAGTGGCAACGCTGTCTGTGGTCACAATGTTTCTGTTGAAGAGCTGGCACAA<br>ACTCGCATCTACTGGCAAAGGGGAAGAAAATGGTGCTGACTATGATGTCTGGGGACATGA<br>ATATATGGCCCGAGTACAAGAACCGGACCATCTTTGATATCACTAATAACCTCTCCATTGT<br>GATTCTGGCTCTGCGCCCATCTGACGAGGGCACATACGAGTGTGTTGTTCTGAAGTATGAA<br>AAAGATGCTTTCAAGCGGGAACACCTGGCTGAAGTGACGTTATCAGTCAAAGCTGACTTCC<br>CTACACCTAGTATAACTGACTTTGAAATTCCACCTTCTAACATTAGAAGGATAAATTGCTC<br>AACCTCTGGAGGTTTTCCAGAGCCTCGCCTCTCCTGGTTGGAAAATGGAGAAGAATTAAAT<br>GCCATCAACACAACAGTTTCCCAAGATCCTGAAAGTGAAGTCTATGCTGTTAGCAGCAAAC<br>TGGATTTCAATATGACAACCAACCACAGCTTCATGTGTCTCATCAAGTATGGACATTTAAG<br>AGTGAATCAGACCTTCAACTGGAATACACCCAAGCAAGAGCATTTTCTCTGATAACCTGCTC<br>CCATCCTGGGCCATTACCTTAATCTCAGTAAATGGAATTTTGTGTATATGCTGCCTGACCT<br>ACTGCTTTGCCCCAAGATGCAGAGAGAGAAGGAGGAATGAGAGATTGAGAAGGGAAAGTGT<br>ACGCCCTGTATGA                                     |
| SEQ ID<br>NO:24 | Round 1<br>CTLA4BP-11        | ATGAGCCACACACGGAGGCAGGGAACATCACCATCCAAGTGTCGTACCTCAAGTTCTTTT<br>AGCTCTTGGTGCTGGCTAGTCTTTCTCACTTCTGTTCAGGTGTTATCCACATGACCAAGGA<br>AGTGAAAGAAGTGGCAACACTGTCTGTGGTCACAATGTTTCTGTTGAAGAGCTGGCACAA<br>ACTCGCATCTACTGGCAAAGGAGAAGAAAATGGTGCTGACTATGATGTCTGGGGACATGA<br>ATATATGGCCCGAGTACAAGAACCGGACCATCTTTGATATCACTAATAACCTCTCCATTGT<br>GATTCTGGCTCTGCGCCCATCTGACGAGGGCACATACGAGTGTGTTGTTCTGAAGTATGAA<br>AAAGATGCTTTCAAGCGGGAACACCTGGCTGAAGTGACGTTATCAGTCAAAGCTGACTTCC<br>CTACACCTAGTATAACTGACTTTGAAATTCCACCTTCTAACATTAGAAGGATAAATTGCTC<br>AACCTCTGGAGGTTTTCCAGAGCCTCGCCTCTCCTGGTTGGAAAATGGAGAAGAATTAAAT<br>GCCATCAACACAACAGTTTCCCAAGATCCTGAAAGTGAAGTCTATGCTGTTAGCAGCAAAC<br>TGGATTTCAATATGACAACCAACCACAGCTTCATGTGTCTCATCAAGTATGGACATTTAAG<br>AGTGAATCAGACCTTCAACTGGAATACACCCAAGCAAGAGCATTTTCTCTGATAACCTGCTC<br>CCATCCTGGGCCATTACCTTAATCTCAGTAAATGGAATTTTGTGTATATGCTGCCTGACCT<br>ACTGCTTTGCCCCAAGATGCAGAGAGAGAAGGAGGAATGAGAGATTGAGAAGGGAAAGTGT<br>ACGCCCTGTATGA                                     |

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|                 |                                | GATTCTGGCTCTGCGCCCATCTGACGAGGGCACATACGAGTGTGTTGTTCTGAAGTATGAA<br>AAAGATGCTTTCAAGCGAGAACACCTGGCTGAAGTGATGTTATCCGTCAAAGCTGACTTCC<br>CTACACCTAGTATAACTGACTTTGAAATTCACCTTCTAACATTAGAAGGATAATTTGCTC<br>AACCTCTGGAGGTTTCCAGAGCCTCACCTCTTCTGGCTGGAAAATGGAGAAGAATTAAT<br>GCCATCAACACAACAGTTTCCCAAGATCCTGAAACTGAGCTCTATGCTGTTAGCAGCAAAC<br>TGGATTTCAATATGACAACCAACCACAGCTTCATGTGTCTCATCAAGTATGGACATTTAAG<br>AGTGAATCAGACCTTCAACTGGAATACAACCAAGCAAGAGCATTTCCTGATAACCTGCTC<br>CCATCCTGGGCCATTACCTAATCTCAGTAAATGGAATTTTTGTGATATGCTGCCTGACCC<br>ACTGTTTTGCCCAAGATGCAGAGAGAGAAGGAGGAATGAGAGATTGAGAAGGGAAAGTGT<br>ACACCCTGTATGA  |
| SEQ ID<br>NO:25 | Round 1<br>CTLA4BP-<br>13      | ATGGGCCACACACGGAGGCAGGGAATATCACCATCCAAGTGTCATACCTCAAGTTCTTTC<br>AGCTCTTGGTGCTGGCTTGTCTTCTCATTCTGTTTCAGGTGTTATCCACGTGACCAAGGA<br>AGTGAAAGAAGTGGCAACACTGTCTGTGGTCACAATGTTTCTGTTGAAGAGCTGGCACAA<br>ACTCGCATCTACTGGCAAAAGGAGAAGAAAATGGTGCTGACTATGATGTCTGGGGACATGA<br>ATATATGGCCCGAGTACAAGAACCGGACCATCTTTGATATCACTAATAACCTCTCCATTGT<br>GATTCTGGCTCTGCGCCCATCTGACGAGGGCACATACGAGTGTGTTGTTCTGAAGTATGAA<br>AAAGACGCTTTCAAGCGGGAACACCTAGCTGAAGTGACGTTATCAGTCAAAGCTGACTTCC<br>CTACACCTAGTATATCTGACTTTGAAATTCACCTTCTAATATTAGAAGGATAATTTGCTC<br>AACCTCTGGAGGTTTCCAGAGCCTCACCTCTTCGGGTTGGAAAATGGGGAAGAAATAAAT<br>GCCATCAACACAACAGCTTCCCAAGATCCTGAAACTGAGCTCTATACTGTTAGCAGCAAAC<br>TGGATTTCAATATGACACCCAATCGCAGTTTTGTGTGTCTCATCAAGTATGGACATTTAAG<br>AGTGAATCAGACCTTCAACTGGAATACACCAAGCAAGAGCATTTCCTGATAACCTGCTC<br>CCATCCTGGGCCATTACCTTAATCTCAGCAAATGGAATTTTTGTGATATGCTGCCTGACCT<br>ACTGCTTTGCCCAAGATGCAGAGAGAGAAGCAATGAGAGACTGAGAAGGGAAAGTGT<br>ACGCCCTGTATGAG   |
| SEQ ID<br>NO:26 | Round 1<br>CTLA4BP-<br>27      | ATGAGCCACACACGGAGGCAGGGAATATCACCATCCAAGTGTCATACCTCAATTTCTTTC<br>AGCTCTTGGTGCTGGCTAGTCTTCTCATTCTGTTTCAGGTGTTATCCACGTGACCAAGGA<br>AGTGAAAGAAGTGGCAACGCTGTCTGTGGTCTCAATGTTTCTGTTGAAGAGCTGGCACAA<br>ACTCGCATCTACTGGCAAAAGGAGAAGAAAATGGTGCTGACTATGATGTCTGGGGACATGA<br>ATATATGGCCCGAGTACAAGAACCGGACCATCTTTGATATCACTAATAACCTCTCCATTGT<br>GATTCTGGCTCTGCGCCCATCTGACGAGGGCACATACGAGTGTGTTGTTCTGAAGTATGAA<br>AAAGACGCTTTCAAGCGAGAACACCTGGCTGAAGTGATGTTATCCGTCAAAGCTGACTTCC<br>CTACACCTAGTATATCTGACTTTGAAATTCACCTTCTAACATTAGAAGGATAATTTGCTC<br>AACCTCCGGAGGTTTTCCTGAGCCTCACCTCTCCTGGCTGGAAAATGGAGAAGAATTAAT<br>GCCATCAACACAACAGTTTCCCAAGATCCTGAAACTGAGCTCTATACTGTTAGCAGCAAAC<br>TGGATTTCAATATGACAGCCAATCACAGTTTTGTGTGTCTCATCAAGTATGGACATTTAAG<br>AGTGAATCAGACCTTCAACTGGAATACACCAAGCAAGAGCATTTCCTGATAACCTGCTC<br>CCATCCTGGGCCATTACCTTAATCTCAGTAAATGGAATTTTTGTGATATGCTGCCTGACCT<br>ACTGCTTTGCCCAAGATGCAGAGAGAGGAGAAGGAATGAGACACTGAGAAGGGAAAGTGT<br>ACGCCCTGTATGA |
| SEQ ID<br>NO:27 | Round 2<br>CTLA4BP-<br>5x2-10c | ATGGGCCACACACGGAGGCAGGGAATATCACCACCAAGTGTCATACCTCAATTTCTTTC<br>AGCTCTTGGTGCTGGCTTGTCTTCTCATTCTGTTTCAGGTGTTATCCACGTGACTAAGGA<br>AGTGAAAGAAGTGGCAACACTGTCTGTGGTCACAATGTTTCTGTTGAAGAGCTGGCACAA<br>ACTCGCATCCACTGGCAAAAGGAGAAGAAAATGGTGCTGACTATGATGTCCGGGGACATGA<br>ATATATGGCCCGAGTACAAGAACCGGACCATCTTTGATATCACTAATAACCTCTCCATTGT<br>GATTCTGGCTCTGCGCCCATCTGACGAGGGCACATACGAGTGTGTTGTTCTGAAGTATGAA<br>AAAGACGCTTTCAAGCGGGAACACCTGGCTGAAGTGATGTTATCCGTCAAAGCTGACTTCC<br>CTACACCTAGTATAACTGACTTTGAAATTCACCTTCTAACATTAGAAGGATAATTTGCTC<br>AACCTCTGGAGGTTTTCCTGAGCCTCACCTCTCCTGGCTGGAAAATGGAGAAGAATTAAT<br>GCCATCAACACAACAGTTTCCCAAGATCCTGAAACTGAGCTCTATACTGTTAGCAGCAAAC<br>TGGATTTCAATATGACAGCCAATCACAGTTTTGTGTGTCTCATCAAGTATGGACATTTAAG<br>AGTGAATCAGACCTTCAACTGGAATACACCAAGCAAGAGCATTTCCTGATAACCTGCTC<br>CCATCCTGGGCCATTACCTTAATCTCAGTAAATGGAATTTTTGTGATATGCTGCCTGACCT<br>ACTGCTTTGCCCAAGATGCAGAGAGAGAAGGAATGAGACACTGAGAAGGGAAAGTGTACG<br>CCCTGTATGAC    |
| SEQ ID<br>NO:28 | Round 2<br>CTLA4BP-<br>5x2-11d | ATGAGCCACACACGGAGGCAGGGAATATCACCATCCAAGTGTCATACCTCAAGTTCTTTC<br>AGCTCTTGGTGCTGGCTTGTCTTCTCATTCTGTTTCAGGTGTTATCCACGTGACCAAGGA<br>AGTGAAAGAAGTGGCAACACTGTCTGTGGTCACAATGTTTCTGTTGAAGAGCTGGCACAA<br>ACTCGCATCCACTGGCAAAAGGAGAAGAAAATGGTGCTGACTATGATGTCTGGGGACATGA   |

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|                 |                                | ATATATGGCCCGAGTACAAGAACCGGACCATCTTTGATATCACTAATAACCTCTCCATTGT<br>GATTCTGGCTCTGCGCCCATCTGACGAGGGCACATACGAGTGTGTTGTTCTGAAGTATGAA<br>AAAGACGCTTTCAAGCGAGAACACCTGGCTGAAGTGATGTTATCCGTCAAAGCTGACTTCC<br>CTACACCTAGTATAACTGACTTTGAAATTCCACCTTCTAACATTAGAAGGATAATTTGCTC<br>AACCTCTGGAGGTTTCCAGAGCCTCACCTCTTCTGGCTGGAAAATGGGGAAGAATTAAAT<br>GCCATCAACACAACAGTTTCCCAAGATCCTGAACTGAGCTCTATACTGTTAGCAGCAAAC<br>TGGATTTCAATATGACAACCGATCGCAGTTTTGTGTGTCTCATCAAGTATGGACATTTAAG<br>AGTGAATCAGACCTTCAACTGGAATACACCCAAGCAAGAGCATTTCCTGATAACCTGCTC<br>CCATCCTGGGCCATTACCTTAATCTCAGCAAATGGAATTTTTGTGATATGCTGCCTGACCT<br>ACTGCTTTGCCCCAAGATGCAGAGAGAGAAAGAGCAATGAGACACTGAGAAGGGAAAGTGT<br>ACGCCCTGTATGAAA  |
| SEQ ID<br>NO:29 | Round 2<br>CTLA4BP-<br>5x2-12F | ATGAGCCACACACGGAGGCAGGGAATATCACCATCCAAGTGTCCTGACCTCAAGTTCTTTC<br>AGCTCTTGGTGCTGGCTAGTCTTTCTCATTCTGTTTCAGGTGTTATCCACGTGACCAAGGA<br>AGTGAAAGAAGTGGCAACGCTGTCTGTGGTCACAATGTTTCTGTTGAAGAGCTGGCACAA<br>ACTCGCATCCACTGGCAAAAGGAGAAGAAAATGGTGCTGACCATGATGCTGCGGGACATGA<br>ATATATGGCCCGAGTACAAGAACCGGACCATCTTTGATATCACTAATAACCTCTCCATTGT<br>GATTCTGGCTCTGCGCCCATCTGACGAGGGCACATACGAGTGTGTTGTTCTGAAGTATGAA<br>AAAGACGCTTTCAAGCGAGAACACCTAGCTGAAGTGACGTTATCAGTCAAAGCTGACTTCC<br>CTACACCTAGTATAACTGACTTTGAAATTCCACCTTCTAACATTAAAAGGATAATTTGCTC<br>AACCTCCGGAGGTTTTCTGAGCCTCACCTCTCCTGGCTGGAAAATGGGGAAGAATTAAAT<br>GCCATCAACACAACAGTTTCCCAAGATCCTGAACTGAGCTCTATACTGTTAGCAGCAAAC<br>TGGATTTCAATATGACAACCAACACAGCTTCATGTGTCTCATCAAGTATGGACATTTAAG<br>AGTGAATCAGACCTTCAACTGGAATACACCCAAGCAAGAGCATTTCCTGATAACCCACTC<br>CCATCCTGGGCCATTACCTTAATCTCAGCAAATGGAATTTTTGTGATATGCTGCCTGACCT<br>ACTGCTTTGCCCCAAGATGCAGAGAGAGGAGAAGGAATGAGACACTGAGAAGGGAAAGTGT<br>ACGCCCTGTATGA  |
| SEQ ID<br>NO:30 | Round 2<br>CTLA4BP-<br>5x2-2g  | ATGGGCCACACACGGAGGCAGGGAACATCACCATCCAAGTGTCCTGACCTCAAGTTCTTTC<br>AGCTCTTGGTGCTGGCTTGTCTTTCTCATTCTGTTTCAGGTGTTATCCACGTGACCAAGGA<br>AGTGAAAGAAGTGGCAACACTGTCTGTGGTCACAATGTTTCTGTTGAAGAGCTGGCACAA<br>ACTCGCATCCACTGGCAAAAGGAGAAGAAAATGGTGCTGACTATGATGCTGCGGGACATGA<br>ATATATGGCCCGAGTACAAGAACCGGACCATCTTTGATATCACTAATAACCTCTCCATTGT<br>GATTCTGGCTCTGCGCCCATCTGACGAGGGCACATACGAGTGTGTTGTTCTGAAGTATGAA<br>AAAGACGCTTTCAAGCGGGAACACCTGGCTGAAGTGATGTTATCCGTCAAAGCTGACTTCC<br>CTACACCTAGTATAACTGACTTTGAAATTCCAACCTCTAACATTAGAAGGATAATTTGCTC<br>AACCTCCGGAGGTTTTCTGAGCCTCACCTCTCCTGGCTGGAAAATGGAGAAGAATTAAAT<br>GCCATCAACACAACAGTTTCCCAAGATCCTGAACTGAGCTCTATACTGTTAGCAGCAAAC<br>TGGATTTCAATATGACAACCAACACAGCTTCATGTGTCTCATCAAGTATGGACATTTAAG<br>AGTGAATCAGACCTTCAACTGGAATACACCCAAGCAAGAGCATTTCCTGATAACCTGCTC<br>CCATCCTGGGCCATTACCTTAATCTCAGTAAATGGAATTTTTGTGATATGCTGCCTGACCT<br>ACCGCTTTGCCCCAAGATGCAGAGAGAGAAAGAGCAATGAGAGACTGAGAAGGGAAAGTGT<br>ACGCCCTGTATGAC |
| SEQ ID<br>NO:31 | Round 2<br>CTLA4BP-<br>5x2-3c  | ATGGGCTACACACGGAGGCAGGGAACATCACCATCCAAGTGTCCTGACCTCAAGTTCTTTC<br>AGCTCTTGGTGCTGGCTTGTCTTTCTCATTCTGTTTCAGGTGTTATCCACGTGACCAGGGA<br>AGTGAAAGAAGTGGCAACACTGTCTGTGGCCACAATGTTTCTGTTGAAGAGCTGGCACAA<br>ACTCGCATCCACTGGCAAAAGGAGAAGAAAATGGTGCTGACTATGATGCTGCGGGACATGA<br>ATATATGGCCCGAGTACAAGAACCGGACCATCTTTGATATCACTAATAACCTCTCCATTGT<br>GATTCTGGCTCTGCGCCCATCTGACGAGGGCACATACGAGTGTGTTGTTCTGAAGTATGAA<br>AAAGACGCTTTCAAGCGGGAACACCTAGCTGAAGTGATGTTATCCGTCAAAGCTGACTTCC<br>CTACACCTAGTATATCTGACTTTGAAATTCCAACCTCTAATATTAGAAGGATAATTTGCTC<br>AACCTCTGGAGGTTTTCTGAGCCTCACCTCTCCTGGCTGGAAAATGGAGAAGAATTAAAT<br>GCCATCAACACAACAGTTTCCCAAGATCCTGAACTGGGCTCTATACTGTTAGCAGCAAAC<br>TGGATTTCAATATGACAACCAACACAGCTTCATGTGTCTCATCAAGTATGGACATTTAAG<br>AGTGAATCAGACCTTCAACTGGAATACACCCAAGCAAGAGCATTTCCTGATAACCTGCTC<br>CCATCCTGGGCCATTACCTTAATCTCAGTAAATGGAATTTTTGTGATATGCTGCCTGACCT<br>ACTGCTTTGCCCCAAGATGCAGAGAGAGAAAGAGGAATGAGAGATTGAGAAGGGAAAGTGT<br>ATGCCCTGTATAAG |
| SEQ ID<br>NO:32 | Round 2<br>CTLA4BP-<br>5x2-4c  | ATGAGCCACACACGGAGGCAGGGAACATCACCATCCAAGTGTCCTGACCTCAAGTTCTTTC<br>AGCTCTTGGTGCTGGCTAGTCTTTCTCATTCTGTTTCAGGTGTTATCCACGTGACCAAGGA<br>AGTGAAAGAAGTGGCAACACTGTCTGTGGTCACAATGTTTCTGTTGAAGAGCTGGCACAA  |

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|                 |                                | ACTCGCATCTACTGGCAAAAGGAGAAGAAAATGGTGCTGACTATGATGTCTGGGGACATGA<br>ATATATGGCCCCGAGTACAAGAACCGGACCATCTTTGATATCACTAATAACCTCTCCATTGT<br>GATTCTGGCTCTGCGCCCATCTGACGAGGGCACATACGAGTGTGTTGTTCTGGAGTATGAA<br>AAAGACGCTTTCAAGCGGGAACACCTGGCTGAAGTGATGTTATCCGTCAAAGCTGACTTCC<br>CTACACCTAGTATATCTGACTTTGAAATTCCACCTTCTAACATTAGAAGGATAATTTGCTC<br>AACCTCTGGAGGTTTTCTGAGCCTCACCTCTCCTGGCTGGAAAATGGGGAAGAATTTAAAT<br>GGCATCAACACAACAGTTTTCCCAAGATCCTGAAACTGAGCTCTATACTGTTAGCAGCAAAC<br>TGGATTTCAATATGACAACCAATCGCAGTTTTGTGTGTCTCATCAAGTATGGACATTTAAG<br>AGTGAATCAGACCTTCAACTGGAATACACCCAAGCAAGAGCATTTCCTGATAACCTGCTC<br>CCATCCTGGGCCATTACCTTAATCTCAGTAAATGGAATTTTTGTGATATGCTGCCTGACCT<br>ACTGCTTTGCCCCAAGATGCAGAGAGAGGAGGAGGAATGAGAGACTGAGAAGGGAAAGTGT<br>ACACCCTGTATGAG   |
| SEQ ID<br>NO:33 | Round 2<br>CTLA4BP-<br>5x2-7b  | ATGAGCCACACACGGAGGCAGGGAATATCACCATCCAAGTGTCATACCTCAATTTCTTTC<br>GGCTCTTGGTGCTGGCTAGTCTTTCTCATTCTGTTTCAGGTGTTATCCACGTGACCAAGGA<br>AGTGAAAGAAGTGGCAACACTGTCTGTGGTCACAATGTTTCTGTTGAAGAGCTGGCACAA<br>ACTCGCATCCACTGGCAAAAGGAGAAGAAAATGGTGCTGACTATGATGTCTGGGGACATGA<br>ATATATGGCCCCGAGTACAAGAACCGGACCATCTTTGATATCACTAATAACCTCTCCATTGT<br>GATTCTGGCTCTGCGCCCATCTGACGAGGGCACATACGAGTGTGTTGTTCTGAAGTATGAA<br>AAAGACGCTTTCAAGCGAGAACACCTAGCTGAAGTGACGTTATCAGTCAAAGCTGGCTTCC<br>CTACACCTAGTATAACTGACTTTGAAATTCCACCTTCTAACATTAGAAGGATAATTTGCTC<br>AACCTCTGGAGGTTTTCCAGAGCCTCACCTCTCCTGGCTGGAAAATGGAGAAGAATTTAAAT<br>GCCATCAACACAACAGTTTTCCCAAGATCCTGGAAGTGAAGTCTATGTTAGCAGCAAAC<br>TGGATTTCAATATGACAGCCAATCACAGTTTTGTGTGTCTCATCAAGTATGGACATTTAAG<br>AGTGAATCAGACCTTCAACTGGAATACACCCAAGCAAGAGCATTTCCTGATAACCTGCTC<br>CCATCCTGGGCCATTACCTTAATCTCAGCAAATGGAATTTTTGTGATATGCTGCCTGACCT<br>ACTGCTTTGCCCCAAGATGCAGAGAGAGAAGGAGGAATGAGAGATTGAGAAGGGAAAGTGT<br>ACGCCCTGTATGA     |
| SEQ ID<br>NO:34 | Round 2<br>CTLA4BP-<br>5x2-8c  | ATGAGCCACACACGGAGGCAGGGAACATCACCATCCAAGTGTCATACCTCAAGTTCTTTC<br>AGCTCTTGGTGCTGGCTAGTCTTTCTCACTTCTGTTTCAGGTGTTATCCACATGACCAAGGA<br>AGTGAAAGAAGTGGCAACGCTGTCTGTGGTCACAATGTTTCTGTTGAAGAGCTGGCACAA<br>ACTCGCATCTACTGGCAAAAGGAGAAGAAAATGGTGCTGACTATGATGTCTGGGGACATGA<br>ATATATGGCCCCGAGTACAAGAACCGGACCATCTTTGATATCACTAATAACCTCTCCATTGT<br>GATTCTGGCTCTGCGCCCATCTGACGAGGGCACATACGAGTGTGTTGTTCTGAAGTATGAA<br>AAAGACGCTTTCAAGCAGGAACACCTGGCTGAAGTGATGTTATCCGTCAAAGCTGACTTCC<br>CTACACCTAGTATAACTGACTTTGAAATTCCACCTTCTAACATTAGAAGGATAATTTGCTC<br>AACCTCTGGAGGTTTTCCAGAGCCTCACCTCTTCTGGCTGGAAAATGGAGAGGAATTTAAAT<br>GCCATCAACACAACAGTTTTCCCAAGACCTGAAACTGAGCTCTATGCTGTTAGCAGCAAAC<br>TGGATTTCAATATGACAACCAACCACAGTTTTGTGTGTCTCATCAAGTATGGACATTTAAG<br>AGTGAATCAGACCTTCAACTGGAATACACCCAAGCAAGAGCATTTCCTGATAACCTGCTC<br>CCATCCTGGGCCATTACCTTAATCTCAGCAAATGGAATTTTTGTGATATGCTGCCTGACCT<br>ACTGCTTTGCCCCAAGATGCAGAGAGAGAAGGAGGAATGAGAGATTGAGAAGGGAAAGTGT<br>ACACCCTGTATGAT |
| SEQ ID<br>NO:35 | Round 2<br>CTLA4BP-<br>5x3-10e | ATGGGCTACACACGGAGGCAGGGAATATCACCATCCAAGTGTCATACCTCAAGTTCTTTC<br>AGCTCTTGGTGCTGGCTTGTCTTTCTCATTCTGTTTCAGGTGTTATCCACGTGACCAAGGA<br>AGTGAAAGAAGTGGCAACACTGTCTGTGGTCACAATGTTTCTGTTGAAGAGCTGGCACAA<br>ACTCGCATCTACTGGCAAAAGGAGAAGAAAATGGTGCTGACTATGATGTCTGGGGACATGA<br>ATATATGGCCCCGAGTACAAGAACCGGACCATCTTTGATATCACTAATAACCTCTCCATTGT<br>GATTCTGGCTCTGCGCCCATCTGACGAGGGCACATACGAGTGTGTTGTTCTGGAGTATGAA<br>AAAGACGCTTTCAAGCGGGAACACCTGGCTGAAGTGACGTTATCAGTCAAAGCTGACTTCC<br>CTACACCTAGTATATCTGACTTTGAAATTCCACCTTCTAACATTAGAAGGATAATTTGCTC<br>AACCTCTGGAGGTTTTCCAGAGCCTCACCTCTTCTGGCTGGAAAATGGAGAAGAATTTAAAT<br>GCCATCAACACAACAGTTTTCCCAAGATCCTGAAACTGAGCTCTATGCTGTTAGCAGCAAAC<br>TGGATTTCAATATGACAACCAACCACAGTTTCATGTGTCTCATCAAGTATGGACATTTAAG<br>AGTGAATCAGACCTTCAACTGGAATACACCCAAGCAAGAGCATTTCCTGATAACCTGCTC<br>CCATCCTGGGCCATTACCTTAATCTCAGCAAATGGAATTTTTGTGATATGCTGCCTGACCT<br>ACTGCTTTGCCCCAAGATGCAGAGAGAGAAAGAGCAATGAGAGACTGAGAAGGGAAAGTGT<br>ACACCCTGTATGAT |
| SEQ ID<br>NO:36 | Round 2<br>CTLA4BP-            | ATGAGCCACACACGGAGGCAGGGAATATCACCATCCAAGTGTCATACCTCAAGTTCTTTC<br>AGCTCTTGGTGCTGGCTTGTCTTTCTCATTCTGTTTCAGGTGTTATCCACGTGACCAAGGA  |



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|                 | 5x3-11b                        | AGTGAAAGAAGTGGCAACGCTGTCTGTGGTCACAATGTTTCTGTTGAAGAGCTAGCACAA<br>ACTCGCATCTACTGGCAAAGGAGAAGAAAATGGTGCTGACTATGATGTCTGGGGACATGA<br>ATATATGGCCCCGAGTACAAGAACCGGACCATCTTTGATATCACTAATAACCTCTCCATTGT<br>GATTCTGGCTCTGCGCTCATCTGACGAGGGCACATACGAGTGTGTTGTTCTGAAGTATGAA<br>AAAGACGCTTTCAAGCGGGAACACCTAGCTGAAAGTGACGTTATCAGTCAAAGCTGACTTCC<br>CTACACCTAGTATAACTGACTTTGAAATTCACCTTCTAACATTAGAAGGATAATTTGCTC<br>AACCTCTGGAGGTTTTCTGAGCCTCACCTCTCCTGGCTGGAAAATGGAGAAGAATTAAT<br>GCCATCAGCACAAACAGTTTCCCAAGATCCTGAAACTGAGCTCTACACTGTTAGCAGCAAAC<br>TGGATTTCAATATGACAACCAATCGCAGTTTTGTGTGTCTCATCAAGTATGGACATTTAAG<br>AGTGAATCAGACCTTCAACTGGAATACACCAAGCAAGAGCATTTTCTGATAACCTGCTC<br>CCATCCTGGGCCATTACCCTAATCTCAGTAAATGGAATTTTTGTGATATGCTGCCTGACCT<br>ACTGCTTTGCCCCAAGATGCAGAGAGAGAAGGAGCAATGAGAGACTGAGAAGGGAAAGTGT<br>ACGCCCTGTATGAA  |
| SEQ ID<br>NO:37 | Round 2<br>CTLA4BP-<br>5x3-6f  | ATGGGCCACACACGGAGGCAGGGAATATCACCATCCAAGTGTCCGTACCTCAATTTCTTTT<br>AGCTCTTGGTGCTAGCTGGTCTTTCTCACTTCTGTTTCAAGGTGTTATCCACGTGACCAAGGA<br>AGTGAAAGAAGTGGCAACACTGTCTGTGGTCACAATGTTTCTGTTGAAGAGCTGGCACAA<br>ACTCGCATCTACTGGCAAAGGGGAAGAAAATGGTGCTGACTATGATGTCTGGGGACATGA<br>ATATATGGCCCCGAGTACAAGAACCGGACCATCTTTGATATCACTAATAACCTCTCCATTGT<br>GATTCTGGCTCTGCGCCCATCTGACGAGGGCACATACGAGTGTGTTGTTCTGGAGTATGAA<br>AAAGACGCTTTCAAGCGAGAACACCTGGCTGAAGTGATGTTATCCGTCAAAGCTGACTTCC<br>CTACACCTAGTATATCTGACTTTGAAATTCACCTTCTAATATTAGAAGGATAATTTGCTC<br>AACCTCTGGAGGTTTTCTGAGCCTCACCTCTCCTGGCTGGAAAATGGAGAAGAATTAAT<br>GCCATCAACACAACAGCTTCCCAAGATCCTGAAACTGAGCTCTATACCTGTTAGCAGCAAAC<br>TGGATTTCAATATGACAACCAACACAGCTTCATGTGTCTCATCAAGTATGGACATTTAAG<br>AGTGAATCAGACCTTCAACTGGAATACACCAAGCAAGAGCATTTTCTGATAACCTGCTC<br>CCATCCTGGGCCATTACCCTAATCTCAGCAAATGGAATTTTTGTGATATGCTGCCTGGCCT<br>ACTGCTTTGCCCCAGGATGCAGAGAGAGAAGAGCAATGAGAGACTGAGAAGGGAAAGTGT<br>ACGCCCTGTATGAC |
| SEQ ID<br>NO:38 | Round 2<br>CTLA4BP-<br>5x4-11d | ATGGGCCACACACGGAGGCAGGGAATATCACCATCCAAGTGTCCATACCTCAAGTTCTTTT<br>AGCTCTTGGTGCTGGCTTGTCTTTCTCATCTCTGTTTCAAGGTGTTATCCACGTGACCAAGGA<br>AGTGAAAGAAGTGGCAACACTGTCTGTGGTCTCAATGTTTCTGTTGAAGAGCTGGCACAA<br>ACTCGCATCCACTGGCAAAGGAGAAGAAAATGGTGCTGACTATGATGTCTGGGGACATGA<br>ATATATGGCCCCGAGTACAAGAACCGGACCATCTTTGATATCACTAATAACCTCTCCATTGT<br>GATTCTGGCTCTGCGCCCATCTGACGAGGGCACATACGAGTGTGTTGTTCTGAAGTATGAT<br>AAAGACGCTTTCAAGCGGGAACACCTGGCTGAAGTGACGTTGTCTAGTCAAAGCTGACTTCC<br>CTACACCTAGTATATCTGACTTTGAAATTCACCTTCTAACATTAGAAGGATAATTTGCTC<br>AACCTCCGGAGGTTTTCTGAGCCTCACCTCTCCTGGCTGGAAAATGGAGAAGAATTAAT<br>GCCATCAACACAACAGTTTCCCAAGATCCTGAAACTGAGCTCTATACTGTTAGCAGCAAAC<br>TGGATTTCAATATGACAGCCAATCACAGTTTTGTGTGTCTCATCAAGTATGGACATTTAAG<br>AGTGAATCAGACCTTCAACTGGAATACACCAAGCAAGAGCATTTTCTGATAACCTGCTC<br>CCATCCTGGGCCATTACCCTAATCTCAGTAAATGGAATTTTTGTGATATGCTGCCTGACCT<br>ACCGCTTTGCCCCAAGATGCAGAGAGAGAAGAGCAATGAGAGACTGAGAAGGGAAAGTGT<br>ACGCCCTGTATGA |
| SEQ ID<br>NO:39 | Round 2<br>CTLA4BP-<br>5x4-12c | ATGGGCCACACACGGAGGCAGGGAACATCACCATCCAAGTGTCCATACCTCAAGTTCTTTT<br>AGCTCTTGGTGCTGGCTGGTCTTTCTCACTTCTGTTTCAAGGTGTTATCCACGTGACCAAGGA<br>AGTGAAAGAAGTGGCAACGCTGTCTGTGGTCACAATGTTTCTGTTGAAGAGCTGGCACAA<br>ACTCGCATCCACTGGCAAAGGAGAAGAAAATGGTGCTGACTATGATGTCTGGGGACATGA<br>ATATATGGCCCCGAGTACAAGAACCGGACCATCTTTGATATCACTAATAACCTCTCCATCGT<br>GATTCTGGCTCTGCGCCCATCTGACGAGGGCACATACGAGTGTGTTGTTCTGAAGTATGAA<br>AAAGATGCTTTCAAGCGAGAACACCTGGCTGAAGTGATGTTATCCGTCAAAGCTGACTTCC<br>CTACACCTAGTATATCTGACTTTGAAATTCACCTTCTAACATTAGAAGGATAATTTGCTC<br>AACCTCTGGAGGTTTTCCAGAGCCTCACCTTCTTGGTTGGAAAATGGGGAAGAATTAAT<br>GCCATCAACACAACAGTTTCCCAAGATCCTGAAACTGAGCTCTATACTGTTAGCAGCAAAC<br>TGGATTTCAATATGACAACCAACACAGCTTCATGTGTCTCATCAAGTATGGACATTTAAG<br>AGTGAATCAGACCTTCAACTGGAATACACCAAGCAAGAGCATTTTCTGATAACCTGCTC<br>CCATCCTGGGCCATTACCCTAATCTCAGCAAATGGAATTTTTGTGATATGCTGCCTGACCT<br>ACCGCTTTGCCCCAAGATGCAGAGAGAGAAGAGCAATGAGACACTGAGAAGGGAAAGTGT<br>ACGCCCTGTATGA   |
| SEQ ID          | Round 2                        | ATGGGCCACACACGGAGGCAGGGAACATCACCATCCAAGTGTCCGTACCTCAAGTTCTTTT   |

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| NO:40           | CTLA4BP-5x4-1f            | AGCTCTTGGTGATGGCTTGTCTTTCTCATTCTGTTTCAGGTGTTATCCACGTGACCAAGGA<br>AGTGAAAGAAGTGGCAACACTGTCTGTGGTCACAATGTTTCTGTTGAAGAGCTGGCACAA<br>ACTCGCATCCACTGGCAAAAGGAGAAGAAAATGGTGCTGACTATGATGTCTGGGGACATGA<br>ATATATGGCCCCGAGTACAAGAACCGGACCATCTTTGATATCACTAATAACCTCTCCATTGT<br>GATTCTGGCTCTGCGCCCATCTGACGAGGGCACATACGAGTGTGTTGTTCTGAAGTATGAA<br>AAAGACGCTTTCAAGCGAGAACACCTAGCTGAAGTGATGTTATCCGTCAAAGCTGACTTCC<br>CTACACCTAGTATATCTGACTTTGAAATTCCAACCTCTAATATTAGAAGGATAATTTGCTC<br>AACCTCTGGAGGTTTTCCAGAGCCTCACCTCTTCTGGTTGGAAAATGGGGAAGAATTAAAT<br>GCCATCAACACAACAGTTTCCCAAGATCCTGAAACTGAGCTCTATACTGTTAGCAGCAAAC<br>TGGATTTCAATATGACAACCAACCACAGCTTCATGTGTCTCATCAAGTATGGACATTTAAG<br>AGTGAATCAGACCTTCAACTGGAATACACCAAGCAAGAGCATTTCCTGATAACCTGCTC<br>CCATCCTGGGCCATTACCTTAATCTCAGTAAATGGAATTTTTGTGATATGCTGCCTGACCT<br>ACTGCTTTGCCCCAAGATGCAGAGAGAGAAGGAGGAATGAGAGATTGAGAAGGGAAAGTGT<br>ATGCCCTGTATGAG   |
| SEQ ID<br>NO:41 | Round 2<br>CTLA4BP-5x5-2e | ATGGGCCACACACGGAGGCAGGGAATATCACCATCCAAGTGTCCATACCTCAAGTTCTTTTC<br>AGCTCTTGGTGCTAGCTTGTCTTTCTCATTCTGTTTCAGGTGTTATCCACGTGACCAAGGA<br>AGTGAAAGAAGTGGCAACGCTGTCTGTGGTCTCAATGTTTCTGTTGAAGAGCTGGCACAA<br>ACTCGCATCCACTGGCAAAAGGAGAAGAAAATGGTGCTGACTATGATGTCTGGGGACATGA<br>ATATATGGCCCCGAGTACAAGAACCGGACCATCTTTGATATCACTAATAACCTCTCCATTGT<br>GATTCTGGCTCTGCGCCCATCTGACGAGGGCACATACGAGTGTGTTGTTCTGAAGTATGAA<br>AAAGACGCTTTCAAGCGAGAACACCTGGCTGAAGTGATGTTATCCGTCAAAGCTGACTTCC<br>CTACACCTAGTATATCTGACTTTGAAATTCCACCTTCTAACATTAGAAGGATAATTTGCTC<br>AACCTCTGGAGGTTTTCTTGAGCCTCACCTCTCCTGGCTGGAAAATGGAGAAGAATTAAAT<br>GCCATCAACACAACAGTTTCCCAAGATCCTGAAACTGAGCTCTATGCTGTTAGCAGCAAAC<br>TGGATTTCAATATGACAACCAACCACAGCTTCATGTGTCTCATCAAGTATGGACATTTAAG<br>AGTGAATCAGACCTTCAACTGGAATACACCAAGCAAGAGCATTTCCTGATAACCTGCTC<br>CCATCCTGGGCCATTACCTTAATCTCAGTAAATGGAATTTTTGTGATATGCTGCCTGACCT<br>ACTGCTTTGCCCCAAGATGCAGAGAGAGGAGAAGGAATGAGACACTGAGAAGGGAAAGTGT<br>ACGCCCTGTATGAC |
| SEQ ID<br>NO:42 | Round 2<br>CTLA4BP-5x5-6e | ATGGGCCACACACGGAGGCAGGGAATATCACCATCCAAGTGTCCATACCTCAAGTTCTTTTC<br>AGCTCTTGGTGCTGGCTGGTCTTCTCATCTCTGTTTCAGGTGTTATCCACGTGACCAAGGA<br>AGTGAAAGAAGTGGCAACACTGTCTGTGGTCAATGTTTCTGTTGAAGAGCTGGCACAA<br>ACTCGCATCCACTGGCAAAAGGAGAAGAAAATGGTGCTGACTATGATGTCTGGGGACATGA<br>ATATATGGCCCCGAGTACAAGAACCGGACCATCTTTGATATCACTAATAACCTCTCCATTGT<br>GATTCTGGCTCTGCGCCCATCTGACGAGGGCACATACGAGTGTGTTGTTCTGAAGTATGAA<br>AAAGATGCTTTCAAGCGGGAACACCTGGCTGAAGTGATGTTATCCGTCAAAGCTGACTTCC<br>CTACACCTAGTATAACTGACTTTGAAATTCCACCTTCTAACATTAGAAGGATAATTTGCTC<br>AACCTCTGGAGGTTTTCTTGAGCCCCACCTCTCCTGGCTGGAAAATGGAGAAGAATTAAAT<br>GCCATCAGCACAACAGTTTCCCAAGATCCTGAAACTGAGCTCTATACTGTTAGCAGCAAAC<br>TGGATTTCAATATGACAACCAACCACAGCTTCATGTGTCTCATCAAGTATGGACATTTAAG<br>AGTGAATCAGACCTTCAACTGGAATACAACCAAGCAAGAGCATTTCCTGATAACCTGCTC<br>CCATCCTGGGCCATTACCTTAATCTCAGCAAATGGAATTTTTGTGATATGCTGCCTGACCC<br>ACTGTTTTGCCCCAAGATGCAGAGAGAGAAAGAGGAATGAGAGACTGAGAAGGGAAAGTGT<br>ACGCCCTGTATGAC  |
| SEQ ID<br>NO:43 | Round 2<br>CTLA4BP-5x6-9d | ATGAGCCACACACGGAGGCAGGGAACATCACCATCCAAGTGTCCATACCTCAAGTTCTTTTC<br>AGCTCCTGGTGCTGGCTGGTCTTTCTCATCTCTGTTTCAGGTGTTATCCACGTGACCAAGGA<br>AGTGAAAGAAGTGGCAACGCTGTCTGTGGTCAATGTTTCTGTTGAAGAGCTGGCACAA<br>ACTCGCATCCACTGGCAAAAGGAGAAGAAAATGGTGCTGACTATGATGTCTGGGGACATGA<br>ATATATGGCCCCGAGTACAAGAACCGGACCATCTTTGATATCACTAATAACCTCTCCATTGT<br>GATTCTGGCTCTGCGCCCATCTGACGAGGGCACATACGAGTGTGTTGTTCTGAAGTATGAA<br>AAAGACGCTTTCAAGCGAGAACACCTGGCTGAAGTGATGTTATCCGTCAAAGCTGACTTCC<br>CTACACCTAGTATATCTGACTTTGAAATTCCAACCTCTAACATTAGAAGGATAATTTGCTC<br>AACCTCTGGAGGTTTTCCAGAGCCTCACCTCTCCTGGCTGGAAAATGGAGAAGAATTAAAT<br>GCCATCAACACAACAGTTTCCCAAGATCCTGAAACTGAGCTCTATACTGTTAGCAGCAAAC<br>TGGATTTCAATATGACAGCCAATCACAGTTTTGTGTGTCTCATCAAGTATGGACATTTAAG<br>AGTGAATCAGACCTTCAACTGGAATACACCAAGCAAGAGCATTTCCTGATAACCTGCTC<br>CCATCCTGGGCCATTACCTTAATCTCAGTAAATGGAATTTTTGTGATATGCTGCCTGACCT<br>ACTGCTTTGCCCCAAGATGCAGAGAGAGAAGGAGGAATGAGAGATTGAGAAGGGAAAGTGT<br>ACGCCCTGTATGAT  |

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| SEQ ID<br>NO:44 | Round 2<br>CTLA4BP-<br>5x8-1f  | ATGGGCCACACACGGAGGCAGGGAATATCACCATCCAAGTGTCCTGACCTCAATTTCTTTT<br>AGCTCTTGGTGCTGGCTTGTCTTTCTCATTCTGTTTCAGGTGTTATCCACGTGACCAAGGA<br>AGTGAAAGAAGTGGCAACACTGTCTGTGGTCACAATGTTTCTGTTGAAGAGCTGGCACAA<br>ACTCGCATCCACTGGCAAAAGGAGAAGAAAATGGTGCTGACTATGATGTCTGGGGACATGA<br>ATATATGGCCCCGAGTACAAGAACCGGACCATCTTTGATATCACTAATAACCTCTCCATTGT<br>GATTCTGGCTCTGCGCCCATCTGACGAGGGCACATACGAGTGTGTTGTTCTGAAGTATGAA<br>AAAGACGCTTTCAAGCGGGAACACCTGGCTGAAGTGATGTTATCAGTCAAAGCTGACTTCC<br>CTACACCTAGTATAACTGACTTTGAAATTCACCTTCTAACATTAGAAGGATAATTTGCTC<br>AGCCTCTGGAGGTTTTCCAGAGCCTCACCTCTTCTGGCTGGAAAATGGAGAAGAATTAAAT<br>GCCATCAACACAACAGTTTTCCAAGATCCTGAACTGAGCTCTATGCTGTTAGCAGCAAAC<br>TGGATTTCAATATGACAACCAACCACAGCTTCATGTGTCTCATCAGGTATGGACATTTAAG<br>AGTGAATCAGACCTTCAACTGGAATACACCAAGCAAGAGCATTTTCTGATAACCTGCTC<br>CCATCCTGGGCCATTACCCTAATCTCAGTAAATGGAATTTTGTGATATGCTGCCTGACCT<br>ACTGCTTTGCCCCAAGATGCAGAGAGAGAAAGAGCAATGAGAGACTGAGAAGGGAAAGTGT<br>ACGCCCTGTATGA |
| SEQ ID<br>NO:45 | Round 2<br>CTLA4BP-<br>5x9-12c | ATGGGCCACACACGGAGGCAGGGAACATCACCATCCAAGTGTCCTGACCTCAATTTCTTTT<br>AGCTCTTGGTGCTGGCTTGTCTTTCTCATTCTGTTTCAGGTGTTATCCACGTGACCAAGGA<br>AGTGAAAGAAGTGGCAACGCTGTCTGTGGTCACAATGTTTCTGTTGAAGAGCTGGCACAA<br>ACTCGCATCCACTGGCAAAAGGAGAAGAAAATGGTGCTGACTATGATGTCTGGGGACATGA<br>ATATATGGCCCCGAGTACAAGAACCGGACCATCTTTGATATCACTAATAACCTCTCCATTGT<br>GATTCTGGCTCTGCGCCCATCTGACGAGGGCACATACGAGTGTGTTGTTCTGAAGTATGAA<br>AAAGACGCTTTCAAGCGAGAACACCTGGCTGAAGTGATGTTATCCGTCAAAGCTGACTTCC<br>CTACACCTAGTATAACTGACTTTGAAATTCACCTTCTAACATTAGAAGGATAATTTGCTC<br>AACCTCCGGAGGTTTTCCAGAGCCTCACCTCTCTGGCTGGAAAATGGAGAAGAATTAAAT<br>GCCATCAACACAACAGTTTTCCAAGATCCTGAACTGAGCTCTATACTGTTAGCAGCAAAC<br>TGGATTTCAATATGACAACCAACCACAGCTTCATGTGTCTCATCAAGTATGGACATTTAAG<br>AGTGAATCAGACCTTCAACTGGAATACACCAAGCAAGAGCATTTTCTGATAACCTGCTC<br>CCATCCTGGGCCATTACCCTAATCTCAGTAAATGGAATTTTGTGATATGCTGCCTGACCT<br>ACTGCTTTGCCCCAAGATGCAGAGAGAGAAAGAGCAATGAGAGACTGAGAAGGGAAAGTGT<br>ACGCCCTGTATGAG |
| SEQ ID<br>NO:46 | Baboon<br>B7-1                 | ATGGGCCACACACGGAGGCAGGGAATATCACCATCCAAGTGTCCTATACCTCAAGTTCTTTT<br>AGCTCTTGGTGCTGGCTTGTCTTTCTCATTCTGTTTCAGGTGTTATCCACGTGACCAAGGA<br>AGTGAAAGAAGTGGCAACACTGTCTGTGGTCACAATGTTTCTGTTGAAGAGCTGGCACAA<br>ACTCGCATCTACTGGCAAAAGGAGAAGAAAATGGTGCTGACTATGATGTCTGGGGACATGA<br>ATATATGGCCCCGAGTACAAGAACCGGACCATCTTTGATATCACTAATAACCTCTCCATTGT<br>GATTCTGGCTCTGCGCCCATCTGACGAGGGCACATACGAGTGTGTTGTTCTGAAGTATGAA<br>AAAGATGCTTTCAAGCGAGAACACCTGGCTGAAGTGATGTTATCCGTCAAAGCTGACTTCC<br>CTACACCTAGTATAACTGACTTTGAAATTCACCTTCTAACATTAGAAGGATAATTTGCTC<br>AACCTCTGGAGGTTTTCCAGAGCCTCACCTCTCTGGTTGGAAAATGGAGAAGAATTAAAT<br>GCCATCAACACAACAGTTTTCCAAGATCCTGGAAGTGAAGTGAAGTGAAGTGAAGTGAAGT<br>TGGATTTCAATATGACAACCAATCAGTTTTGTGTGTCTCATCAAGTATGGACATTTAAG<br>AGTGAATCAGACCTTCAACTGGAATACACCAAGCAAGAGCATTTTCTGATAACCTGCTC<br>CCATCCTGGGCCATTACCCTAATCTCAGTAAATGGAATTTTGTGATATGCTGCCTGACCT<br>ACTGTTTTGCCCCAAGATGCAGAGAGAGAAAGGAATGAGACATTGAGAAGGGAAAGTGT<br>ACGCCCTGTATGA    |
| SEQ ID<br>NO:47 | Orangutan<br>B7-1              | ATGGGCCACACACGGAGGCAGGGAACATCACCATCCAAGTGTCCTATACCTCAATTTCTTTT<br>AGCTCTTGGTGCTGGCTAGTCTTTCTCACTTCTGTTTCAGGTGTTATCCACGTGACCAAGGA<br>AGTGAAAGAAGTGGCAACGCTGTCTGTGGTCACAATGTTTCTGTTGAAGAGCTGGCACAA<br>ACTCGCATCTACTGGCAAAAGGAGAAGAAAATGGTGCTGACTATGATGTCTGGGGACATGA<br>ATATATGGCCCCGAGTACAAGAACCGGACCATCTTTGATATCACTAATAACCTCTCCATTGT<br>GATCCTGGCTCTGCGCCCATCTGACGAGGGCACATATGAGTGTGTTGTTCTGAAGTATGAA<br>AAAGACGCTTTCAAGCGGGAACACCTGGCTGAAGTGACGTTATCGGTCAAAGCTGACTTCC<br>CTACACCTAGTATACTGACTTTGAAATTCACCTTCTAATATTAGAAGGATGATTTGCTC<br>AACCTCTGGAGGTTTTCCAGAGCCTCACCTCTCTGGTTGGAAAATGGAGAAGAATTAAAT<br>GCCATCAGCACAAACAGTTTTCCAAGATCCTGAACTGAGCTCTATGCTGTTAGCAGCAAAC<br>TGGATTTCAATATGACAACCAACCACAGCTTCATGTGTCTCATCAAGTATGGACATTTAAG<br>AGTGAATCAGACCTTCAACTGGAATACACCAAGCAAGAGCATTTTCTGATAACCTGCTC<br>CCATCCTGGGCCATTACCCTAATCTCAGTAAATGGAATTTTGTGATATGCTGCCTGACCT<br>ACTGCTTTGCCCCAAGATGCAGAGAGAGAAAGGAATGAGACATTGAGAAGGGAAAGTGT<br>ACGCCCTGTATGA  |

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|                 |                                       | ACGCCCTGTATGA   |
| SEQ ID<br>NO:48 | Round 1<br>CD28BP-71<br>(Clone<br>71) | MGHTMKWGSLLPKRPCLWLSQLLVLTGLFYFCSGITPKSVTKRVKETVMLS CDYNTSTEEL<br>TSLRIYWQKDSKMLAILPGKVQVWPEYKNRTITDMNDNPRIVILALRLSDSGTYTCV IQK<br>PVLKGAYKLEHLASVRLMIRADFVPPTINDLGNPSPNIRRLICSTSGGFPRPHLYWLENGE<br>ELNATNTTSLQDPETKLYMISSELDNFNMTSNHSFLCLVKYGDLTVSQTFYWQESKPTPSAN<br>QHLTWTIIIPVSAFGISVIIAVILTCLTCRNAAIRRQRRENEVEMQSCSQSP          |
| SEQ ID<br>NO:49 | Round 1<br>CD28BP-84<br>(Clone<br>84) | MGHTLRPGTPLPRCLHLKLCLLLALAGLHFSSGISQVTKSVKEMAALSCDYNISIDELARM<br>RIYWQKDQQMVLSIISGQVEVWPEYKNRTFPDIINNLSLMILALRLSDKGTYTCVVQKNEN<br>GSFRREHLTSVTL SIRADSPVPSITDIGHAPPNVKRIRCSASGGFPEPRLAWMEDGEELNA<br>VNTTVDQDLDTELYSVSSELDNFVNTNNHSIVCLIKYGELSVSQIFPWSKPKQEPPI DQLPF<br>WVIIIPVSGALVLTAVVLYCLACRHVARWKRTRRNEETVGTERLSPIYLGSAQSSG     |
| SEQ ID<br>NO:50 | Round 1<br>CD28BP-<br>118             | MGHTLRPGTPLPRCLHLKLCLLLALAGLHFSSGISQVTKSVKEMAALSCDYNISIDELARM<br>RIYWQKDQQMVLSIISGQVEVWPEYKNRTFPDIINNLSLMILALRLSDKGTYTCVVQKNEN<br>GSFRREHLTSVTL SIRADFPVPSITDIGHAPPNVKRIRCSASGGFPEPRLAWMEDGEELNA<br>VNTTVDQDLDTELYSVSSELDNFVNTNNHSIVCLIKYGELSVSQIFPWSKPKQEPPI DQLPF<br>WVIIIPVSGALVLTAVVLYCLACRHVARWKRTRRNEETVGTERLSPIYLGSAQSSG     |
| SEQ ID<br>NO:51 | Round 1<br>CD28BP-<br>126             | MGHTMKWGSLLPKRPCLWLSQLLVLTGLFYFCSGITPKSVTKRVKETVMLS CDYSTSTEEL<br>TSLRIYWQKDSKMLAILPGKVQVWPEYKNRTITDMNDNPRIVILALRLSDSGTYTCV IQK<br>PDLKGAYKLEHLTSVRLMIRADFVPPTINDLGNPSPNIRRLICSTSGGFPRPHLYWLENGE<br>ELNATNTTTSQDPGTELYMISSELDNFVNTNNHSIVCLIKYGELSVSQIFPWSKPKQEPPI D<br>QLPFWVIIIPVSGALVLTAVVLYCLACRHVARWKRTRRNEETVGTERLSPIYLGSAQSSG |
| SEQ ID<br>NO:52 | Round 2<br>CD28BP-1                   | MGHTMKWGSLLPKRPCLWLSQLLVLTGLFYFCSGITPKSVTKRVKETVMLS CDYSTSTEEL<br>TSLRIYWQKDSKMLAILPGKVQVWPEYKNRTITDMNDNPRIVILALRLSDSGTYTCV IQK<br>PVLKGAYKLEHLASVRLMIRADFVPPTINDLGNPSPNIRRLICSTSGGFPRPHLYWLENGE<br>ELNATNTTTSQDPGTELYMISSELDNFVNTNNHSIVCLIKYGELSVSQIFPWSKPKQEPPI D<br>QLPFWVIIIPVSGALVLTAVVLYCLACRHVARWKRTRRNEETVGTERLSPIYLGSAQSSG |
| SEQ ID<br>NO:53 | Round 2<br>CD28BP-2                   | MGHTMKWGSLLPKRPCLWLSQLLVLTGLFYFCSGITPKSVTKRVKETVMLS CDYSTSTEEL<br>TSLRIYWQKDSKMLAILPGKVQVWPEYKNRTITDMNDNPRIVILALRLSDSGTYTCV IQK<br>PVLKGAYKLEHLASVRLMIRADFVPPTINDLGNPSPNIRRLICSTSGGFPRPHLYWLENGE<br>ELNATNTTSLQDPETKLYMISSELDNFVNTNNHSIVCLIKYGELSVSQIFPWSKPKQEPPI D<br>QLPFWVIIIPVSGALVLTAVVLYLPACRHVARWKRTRRNEETVGTERLSPIYLGSAQSSG |
| SEQ ID<br>NO:54 | Round 2<br>CD28BP-3                   | MGHTMKWGSLLPKRPCLWLSQLLVLTGLFYFCSGITPKSVTKRVKETVMLS CDYNTSTEEL<br>TSLRIYWQKDSKMLAILPGKVQVWPEYKNRTITDMNDNPRIVILALRLSDSGTYTCV IQK<br>PVLKGAYKLEHLASVRLMIRADFVPPTINDLGNPSPNIRRLICSTSGGFPRPHLYWLENGE<br>ELNATNTTTSQDPGTELYMISSELDNFVNTNNHSIVCLIKYGELSVSQIFPWSKPKQEPPI D<br>QLPFWVIIIPVSGALVLTAVVLYCLACRHVARWKRTRRNEETVGTERLSPIYLGSAQSSG |
| SEQ ID<br>NO:55 | Round 2<br>CD28BP-4                   | MGHTMKWGSLLPKRPCLWLSQLLVLTGLFYFCSGITPKSVTKRVKETVMLS CDYNTSTEEL<br>TSLRIYWQKDSKMLAILPGKVQVWPEYKNRTITDMNDNPRIVILALRLSDSGTYTCV IQK<br>PVLKGAYKLEHLASVRLMIRADFVPPTINDLGNPSPNIRRLICSTSGGFPRPHLCWLENGE<br>ELNATNTTTSQDPGTELYMISSELDNFVNTNNHSIVCLIKYGELSVSQIFPWSKPKQEPPI D<br>QLPFWVIIIPVSGALVLTAVVLYCLACRHVARWKRTRRNEETVGTERLSPIYLGSAQSSG |
| SEQ ID<br>NO:56 | Round 2<br>CD28BP-5                   | MGHTMKWGSLLPKRPCLWLSQLLVLTGLFYFCSGITPKSVTKRVKETVMLS CDYSTSTEEL<br>TSLRIYWQKDSKMLAILPGKVQVWPEYKNRTITDMNDNPRIVILALRLSDKGTYTCVVQK<br>PVLKGAYKLEHLTSVRLMIRADFVPPTINDLGNPSPNIRRLICSTSGGFPRPHLYWLENGE<br>ELNATNTTTSQDPGTELYMISSELDNFVNTNNHSIVCLIKYGELSVSQIFPWSKPKQEPPI D<br>QLPFWVIIIPVSGALVLTAVVLYCLACRHVARWKRTRRNEETVGTERLSPIYLGSAQSSG  |
| SEQ ID<br>NO:57 | Round 2<br>CD28BP-6                   | MGHTMKWGSLLPKRPCLWLSQLLVLTGLFYFCSGITPKSVTKRVKETVMLS CDYNTSTEEL<br>TSLRIYWQKDSKMLAILPGKVQVWPEYKNRTITDMNDNPRIVILALRLSDSGTYTCV IQK<br>PVLKGAYKLEHLASVRLMIRADFVPPTINDLGNPSPNIRRLICSTSGGFPRPHLYWLENGE<br>ELNATNTTTSQDPGTELYMISSELDNFVNTNNHSIVCLIKYGELSVSQIFPWSKPKQEPPI D<br>QLPFWVIIIPVSGALVLTAVVLYCLACRHVARWKRTRRNEETVGTERLSPIYLGSAQSSG |
| SEQ ID<br>NO:58 | Round 2<br>CD28BP-7                   | MGHTMKWRSLLPKRPCLWLSQLLVLTGLFYFCSGITPKSVTKRVKETVMLS CDYNTSTEEL<br>TSLRIYWQKDSKMLAILPGKVQVWPEYKNRTITDMNDNPRIVILALRLSDSGTYTCV IQK<br>PVLKGAYKLEHLASVRLMIRADFVPPTINDLGNPSPNIRRLICSTSGGFPRPHLYWLENGE<br>ELNATNTTTSQDPGTELYMISSELDNFVNTNNHSIVCLIKYGELSVSQIFPWSKPKQEPPI D<br>QLPFWVIIIPVSGALVLTAVVLYCLACRHVARWKRTRRNEETVGTERLSPIYLGSAQSSG |
| SEQ ID<br>NO:59 | Round 2<br>CD28BP-8                   | MGHTMKWGSLLPKRPCLWLSQLLVLTGLFYFCSGITPKSVTKRVKETVMLS CDYNTSTEEL<br>TSLRIYWQKDSKMLAILPGKVQVWPEYKNRTITDMNDNPRIVILALRLSDSGTYTCV IQK<br>PVLKGAYKLEHLASVRLMIRADFVPVPSITDIGHAPPNVKRIRCSASGGFPEPRLAWMEDGE   |

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|                 |                      | ELNAVNTTVDQDLDELYSVSSELDENVNTHSIVCLIKYGELSVSQIFPWSKPKQEPPI<br>QLPFVWIIIPVSGALVLTAVVLYCLACRHVARWKRTRRNEETVGTERLSPIYLGSAQSSG  |
| SEQ ID<br>NO:60 | Round 2<br>CD28BP-9  | MGHTMKWGSLLPPKRPCLWLSQLLVLTGLFYFCSGITPKSVTKRVKETVMLSCDYNTSTEEL<br>TSLRIYWQKDSKMLAILPGKVQVWPEYKNRTITDMNDNPRIVILALRLSDSGTYTCVQK<br>PVLKGAYKLEHLASVRLMIRADFPVPTINDLGNPSNIRRLICSTSGGFPRPHLYWLENGE<br>ELNATNTTQSDPGTELYMISSELDENVNTHSIVCLIKYGELSVSQIFPWSKPKQEPPI<br>QLPFVWIIIPVSGALVLTAVVLYCLACRHVARWKRTRRNEETVGTERLSPIYLGSAQSSG |
| SEQ ID<br>NO:61 | Round 2<br>CD28BP-10 | MGHTMKWRSLLPPKRPCLWLSQLLVLTGLFYFCSGITPKSVTKRVKETVMLSCDYNTSTEEL<br>TSLRIYWQKDSKMLAILPGKVQVWPEYKNRTITDMNDNPRIVILALRLSDSGTYTCVQK<br>PVLKGAYKLEHLTSVRLMIRADFPVPTINDLGNPSNIRRLICSTSGGFPRPHLYWLENGE<br>ELNATNTTQSDPGTELYMISSELDENVNTHSIVCLIKYGELSVSQIFPWSKPKQEPPI<br>QLPFVWIIIPVSGALVLTAVVLYCLACRHVARWKRTRRNEETVGTERLSPIYLGSAQSSG |
| SEQ ID<br>NO:62 | Round 2<br>CD28BP-11 | MGHTMKWGSLLPPKRPCLWLSQLLVLTGLFYFCSGITPKSVTKRVKETVMLSCDYNTSTEEL<br>TSLRIYWQKDSKMLAILPGKVQVWPEYKNRTITDMNDNPRIVILALRLSDSGTYTCVQK<br>NENGSRREHLTSVRLMIRADFPVPTINDLGNPSNIRRLICSTSGGFPRPHLYWLENGE<br>LNAVNTTVDQDLDELYSVSSELDENVNTHSIVCLIKYGELSVSQIFPWSKPKQEPPI<br>LPFWVIIIPVSGALVLTAVVLYCLACRHVARWKRTRRNEETVGTERLSPIYLGSAQSSG     |
| SEQ ID<br>NO:63 | Round 2<br>CD28BP-12 | MGHTMKWGSLLPPKRPCLWLSQLLVLTGLFYFCSGITPKSVTKRVKETVMLSCDYNTSTEEL<br>TSLRIYWQKDSKMLAILPGKVQVWPEYKNRTITDMNDNPRIVILALRLSDSGTYTCVQK<br>PVLKGAYKLEHLASVRLMIRADFPVPTINDLGNPSNIRRLICSTSGGFPRPHLYWLENGE<br>ELNATNTTQSDPGTELYMISSELDENVNTHSIVCLIKYGELSVSQIFPWSKPKQEPPI<br>QLPFVWIIIPVSGALVLTAVVLYCLACRHVARWKRTRRNEETVGTERLSPIYLGSAQSSG |
| SEQ ID<br>NO:64 | Round 2<br>CD28BP-13 | MGHTMKWGSLLPPKRPCLWLSQLLVLTGLFYFCSGITPKSVTKRVKETVMLSCDYNTSTEEL<br>TSLRIYWQKDSKMLAILPGKVQVWPEYKNRTITDMNDNPRIVILALRLSDSGTYTCVQK<br>PVLKGAYKLEHLASVRLMIRADFPVPTINDLGNPSNIRRLICSTSGGFPRPHLYWLENGE<br>ELNAVNTTVDQDLDELYSVSSELDENVNTHSIVCLIKYGELSVSQIFPWSKPKQEPPI<br>QLPFVWIIIPVSGALVLTAVVLYCLACRHVARWKRTRRNEETVGTERLSPIYLGSAQSSG |
| SEQ ID<br>NO:65 | Round 2<br>CD28BP-14 | MGHTLRPGTPLPRCLHLKLCLLLALAGLHFSGISQVTKSVKEMAALSCDYNISIDELARM<br>RIYWQKDQOMVLSIISGQVEVWPEYKNRTITDMNDNPRIVILALRLSDSGTYTCVQK<br>PVLKGAYKLEHLASVRLMIRADFPVPTINDLGNPSNIRRLICSTSGGFPRPHLYWLENGE<br>ELNATNTTQSDPGTELYMISSELDENVNTHSIVCLIKYGELSVSQIFPWSKPKQEPPI<br>QLPFVWIIIPVSGALVLTAVVLYCLACRHVARWKRTRRNEETVGTERLSPIYLGSAQSSG     |
| SEQ ID<br>NO:66 | Round 2<br>CD28BP-15 | MGHTMKWGSLLPPKRPCLWLSQLLVLTGLFYFCSGITPKSVTKRVKETVMLSCDYNTSTEEL<br>TSLRIYWQKDSKMLAILPGKVQVWPEYKNRTITDMNDNPRIVILALRLSDSGTYTCVQK<br>PVLKGAYKLEHLASVRLMIRADFPVPTINDLGNPSNIRRLICSTSGGFPRPHLYWLENGE<br>ELNATNTTQSDPGTELYMISSELDENVNTHSIVCLIKYGELSVSQIFPWSKPKQEPPI<br>QLPFVWIIIPVSGALVLTAVVLYCLACRHVARWKRTRRNEETVGTERLSPIYLGSAQSSG |
| SEQ ID<br>NO:67 | Round 2<br>CD28BP-16 | MGHTMKWGSLLPPKRPCLWLSQLLVLTGLFYFCSGITPKSVTKRVKETVMLSCDYNTSTEEL<br>TSLRIYWQKDSKMLAILPGKVQVWPEYKNRTITDMNDNPRIVILALRLSDSGTYTCVQK<br>PVLKGAYKLEHLTSVRLMIRADFPVPTINDLGNPSNIRRLICSTSGGFPRPHLYWLENGE<br>ELNATNTTQSDPGTELYMISSELDENVNTHSIVCLIKYGELSVSQIFPWSKPKQEPPI<br>QLPFVWIIIPVSGALVLAHVLYCLACRHVARWKRTRRNEETVGTERLSPIYLGSAQSSG  |
| SEQ ID<br>NO:68 | Round 2<br>CD28BP-17 | MGHTMKWGSLLPPKRPCLWLSQLLVLTGLFYFCSGITPKSVTKRVKETVMLSCDYNTSTEEL<br>TSLRIYWQKDSKMLAILPGKVQVWPEYKNRTITDMNDNPRIVILALRLSDSGTYTCVQK<br>NENGSRREHLTSVRLMIRADFPVPTINDLGNPSNIRRLICSTSGGFPRPHLYWLENGE<br>LNAVNTTVDQDLDELYSVSSELDENVNTHSIVCLIKYGELSVSQIFPWSKPKQEPPI<br>LPFWVIIIPVSGALVLTAVVLYCLACRHVARWKRTRRNEETVGTERLSPIYLGSAQSSG     |
| SEQ ID<br>NO:69 | Round 1<br>CTLA4BP-5 | MGHTRRQGISPSKCPYLKFFQLLVLAGLSHFCSGVIHVTKEVKEVATLSCGHNVSVVEELAQ<br>TRIHQKEKKMVLTMMSGDMNIWPEYKNRTIFDITNNLSIVILALRPSDEGTYECVVLKYE<br>KDAFKREHLAEVTLVSKADFPPTSISDFEIPPSNIRRIICSTSGGFPEPHLSWLENGE<br>ELNATNTTQSDPGTELYTVSSKLDNMNTNHSFMCLIKYGLRVNQTFWNWTPKQEHFDPNLL<br>PSWAITLISVNGIFVICCLTYCFAPRCRERRRNERLRRESVRPV               |
| SEQ ID<br>NO:70 | Round 1<br>CTLA4BP-7 | MGYTRRQGTSPSKCPYLKFFQLLVLAGLSHFCSGVIHVTNEVKEVATLSCGHNVSGEELAQ<br>TRIWQKEKKMVLTMMYGDMNIWPEYKNRTIFDITNNLSIVILALRPSDEGTYECVVLKYE<br>KDAFKREHLAEVTLVSKADFPPTSISDFEIPPSNIRRIICSTSGGFPEPHLWMDGEELN<br>AISTTVSQDPGTELYAVSSKLDNMNTNHSFMCLIKYGLRVNQTFWNWTPKQEHFDPNLL<br>PSWAITLISVNGIFVICCLTYCFAPRCRERRRNERLRRESVRPV                 |
| SEQ ID<br>NO:71 | Round 1<br>CTLA4BP-  | MSHTRRQGTSPSKCPYLKFFQLLVLAGLSHFCSGVIHMTKEVKEVATLSCGHNVSVVEELAQ<br>TRIWQKEKKMVLTMMSGDMNIWPEYKNRTIFDITNNLSIVILALRPSDEGTYECVVLKYE  |



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|                 | 11                             | KDAFKREHLAEVMLSVKADFPTPSITDFEIPPSNIRRIICSTSGGFPEPHLFWLENGEELN<br>AINTTVSQDPETELYAVSSKLDNFMTTNHSMCLIKYGHLRVNQTFNWNTTKQEHFPDNL<br>PSWAITLISVNGIFVICCLTHCFAPRCRERRRNERLRRESVHPV  |
| SEQ ID<br>NO:72 | Round 1<br>CTLA4BP-<br>13      | MGHTRRQGISPSKCPYLKFFQLLVLAACLSHFCSGVIHVTKEVKEVATLSCGHNVSVVEELAQ<br>TRIIYWQKEKKMVLTMMSGDMNIWPEYKNRTIFDITNNLSIVILALRPSDEGTIECVVLKYE<br>KDAFKREHLAEVTLVKADFPPTPSISDFEIPPSNIRRIICSTSGGFPEPHLFWLENGEELN<br>AINTTVSQDPETELYTVSSKLDNFMTNRSFVCLIKYGHLRVNQTFNWNTPKQEHFPDNL<br>PSWAITLISANGIFVICCLTYCFAPRCRERKSNERLRRESVRPV |
| SEQ ID<br>NO:73 | Round 1<br>CTLA4BP-<br>27      | MSHTRRQGISPSKCPYLNFQLLVLASLSHFCSGVIHVTKEVKEVATLSCGLNVSVEELAQ<br>TRIIYWQKEKKMVLTMMSGDMNIWPEYKNRTIFDITNNLSIVILALRPSDEGTIECVVLKYE<br>KDAFKREHLAEVMLSVKADFPTPSISDFEIPPSNIRRIICSTSGGFPEPHLSWLENGEELN<br>AINTTVSQDPETELYTVSSKLDNFMTANHSFVCLIKYGHLRVNQTFNWNTPKQEHFPDNL<br>PSWAITLISVNGIFVICCLTYCFAPRCRERRRNETLRRESVRPV   |
| SEQ ID<br>NO:74 | Round 2<br>CTLA4BP-<br>5x2-10c | MGHTRRQGISPPKCPYLNFQLLVLACLSHFCSGVIHVTKEVKEVATLSCGHNVSVVEELAQ<br>TRIIHWQKEKKMVLTMMSGDMNIWPEYKNRTIFDITNNLSIVILALRPSDEGTIECVVLKYE<br>KDAFKREHLAEVTLVKADFPPTPSITDFEIPPSNIRRIICSTSGGFPEPHLSWLENGEELN<br>AINTTVSQDPETELYTVSSKLDNFMTANHSFVCLIKYGHLRVNQTFNWNTPKQEHFPDNL<br>PSWAITLISVNGIFVICCLTYCFAPRCRERRRNETLRRESVRPV  |
| SEQ ID<br>NO:75 | Round 2<br>CTLA4BP-<br>5x2-11d | MSHTRRQGISPSKCPYLKFFQLLVLACLSHFCSGVIHVTKEVKEVATLSCGHNVSVVEELAQ<br>TRIIHWQKEKKMVLTMMSGDMNIWPEYKNRTIFDITNNLSIVILALRPSDEGTIECVVLKYE<br>KDAFKREHLAEVMLSVKADFPTPSITDFEIPPSNIRRIICSTSGGFPEPHLFWLENGEELN<br>AINTTVSQDPETELYTVSSKLDNFMTTDRSFVCLIKYGHLRVNQTFNWNTPKQEHFPDNL<br>PSWAITLISANGIFVICCLTYCFAPRCRERKSNETLRRESVRPV |
| SEQ ID<br>NO:76 | Round 2<br>CTLA4BP-<br>5X2-12F | MSHTRRQGISPSKCPYLKFFQLLVLASLSHFCSGVIHVTKEVKEVATLSCGHNVSVVEELAQ<br>TRIIHWQKEKKMVLTMMSGDMNIWPEYKNRTIFDITNNLSIVILALRPSDEGTIECVVLKYE<br>KDAFKREHLAEVTLVKADFPPTPSITDFEIPPSNIKRIICSTSGGFPEPHLSWLENGEELN<br>AINTTVSQDPETELYTVSSKLDNFMTTNHSMCLIKYGHLRVNQTFNWNTPKQEHFPDNL<br>PSWAITLISANGIFVICCLTYCFAPRCRERRRNETLRRESVRPV  |
| SEQ ID<br>NO:77 | Round 2<br>CTLA4BP-<br>5x2-2g  | MGHTRRQGTSPSKCPYLKFFQLLVLACLSHFCSGVIHVTKEVKEVATLSCGHNVSVVEELAQ<br>TRIIHWQKEKKMVLTMMSGDMNIWPEYKNRTIFDITNNLSIVILALRPSDEGTIECVVLKYE<br>KDAFKREHLAEVMLSVKADFPTPSITDFEIPTSNIRRIICSTSGGFPEPHLSWLENGEELN<br>AINTTVSQDPETELYTVSSKLDNFMTTNHSMCLIKYGHLRVNQTFNWNTPKQEHFPDNL<br>PSWAITLISVNGIFVICCLTYRFAPRCRERKSNERLRRESVRPV  |
| SEQ ID<br>NO:78 | Round 2<br>CTLA4BP-<br>5x2-3c  | MGYTRRQGTSPSKCPYLKFFQLLVLASLSHFCSGVIHVTREVKEVATLSCGHNVSVVEELAQ<br>TRIIHWQKEKKMVLTMMSGDMNIWPEYKNRTIFDITNNLSIVILALRPSDEGTIECVVLKYE<br>KDAFKREHLAEVMLSVKADFPTPSISDFEIPTSNIRRIICSTSGGFPEPHLSWLENGEELN<br>AINTTVSQDPETGLYTVSSKLDNFMTTNHSMCLIKYGHLRVNQTFNWNTPKQEHFPDNL<br>PSWAITLISVNGIFVICCLTYCFAPRCRERRRNERLRRESVCPV  |
| SEQ ID<br>NO:79 | Round 2<br>CTLA4BP-<br>5x2-4c  | MSHTRRQGTSPSKCPYLKFFQLLVLASLSHFCSGVIHVTKEVKEVATLSCGLNVSVEELAQ<br>TRIIYWQKEKKMVLTMMSGDMNIWPEYKNRTIFDITNNLSIVILALRPSDEGTIECVVLEYE<br>KDAFKREHLAEVMLSVKADFPTPSISDFEIPPSNIRRIICSTSGGFPEPHLSWLENGEELN<br>GINTTVSQDPETELYTVSSKLDNFMTTNRSFVCLIKYGHLRVNQTFNWNTPKQEHFPDNL<br>PSWAITLISVNGIFVICCLTYCFAPRCRERRRNERLRRESVHPV  |
| SEQ ID<br>NO:80 | Round 2<br>CTLA4BP-<br>5x2-7b  | MSHTRRQGISPSKCPYLNFRLVLASLSHFCSGVIHVTKEVKEVATLSCGHNVSVVEELAQ<br>TRIIHWQKEKKMVLTMMSGDMNIWPEYKNRTIFDITNNLSIVILALRPSDEGTIECVVLKYE<br>KDAFKREHLAEVTLVKAGFPPTPSITDFEIPPSNIRRIICSTSGGFPEPHLSWLENGEELN<br>AINTTVSQDPGTLEYTVSSKLDNFMTANHSFVCLIKYGHLRVNQTFNWNTPKQEHFPDNL<br>PSWAITLISANGIFVICCLTYCFAPRCRERRRNERLRRESVRPV   |
| SEQ ID<br>NO:81 | Round 2<br>CTLA4BP-<br>5x2-8c  | MSHTRRQGTSPSKCPYLKFFQLLVLASLSHFCSGVIHMTKEVKEVATLSCGHNVSVVEELAQ<br>TRIIYWQKEKKMVLTMMSGDMNIWPEYKNRTIFDITNNLSIVILALRPSDEGTIECVVLKYE<br>KDAFKQEHLEAEVMLSVKADFPTPSITDFEIPPSNIRRIICSTSGGFPEPHLFWLENGEELN<br>AINTTVSQDPETELYAVSSKLDNFMTTNHSMCLIKYGHLRVNQTFNWNTPKQEHFPDNL<br>PSWAITLISANGIFVICCLTYCFAPRCRERRRNERLRRESVHPV |
| SEQ ID<br>NO:82 | Round 2<br>CTLA4BP-<br>5x3-10e | MGYTRRQGISPSKCPYLKFFQLLVLACLSHFCSGVIHVTKEVKEVATLSCGHNVSVVEELAQ<br>TRIIYWQKEKKMVLTMMSGDMNIWPEYKNRTIFDITNNLSIVILALRPSDEGTIECVVLEYE<br>KDAFKREHLAEVTLVKADFPPTPSISDFEIPPSNIRRIICSTSGGFPEPHLFWLENGEELN<br>AINTTVSQDPETELYAVSSKLDNFMTTNHSMCLIKYGHLRVNQTFNWNTPKQEHFPDNL<br>PSWAITLISANGIFVICCLTYCFAPRCRERKSNERLRRESVHPV  |
| SEQ ID          | Round 2                        | MSHTRRQGISPSKCPYLKFFQLLVLACLSHFCSGVIHVTKEVKEVATLSCGHNVSVVEELAQ  |

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| NO:83           | CTLA4BP-5x3-11b            | TRIWQKEKKMVLTMMSGDMNIWPEYKNRTIFDITNNLSIVILALRSSDEGTYECVVLKYE<br>KDAFKREHLAEVTL SVKADFP TPTSIDFEIPPSNIRRIICSTSGGFPEPHLSWLENGEELN<br>AISTTVSQDPETELYTVSSKLDNFMTTNRSFVCLIKYGHRLRVNQTFNWNTPKQEHF PDNLL<br>PSWAITLISVNGIFVICCLTYCFAPRCRERRSNERLRRESVRPV   |
| SEQ ID<br>NO:84 | Round 2<br>CTLA4BP-5x3-6f  | MGHTRRQGISPSKCPYLKFFQLLVLAGLSHFCSGVIHVTKEVKEVATLSCGHNVSVVEELAQ<br>TRIWQKEKKMVLTMMSGDMNIWPEYKNRTIFDITNNLSIVILALRPSDEGTYECVVLEYE<br>KDAFKREHLAEVMLS VKADFP TPTSIDFEIPTSNIRRIICSTSGGFPEPHLSWLENGEELN<br>AINTTASQDPETELYTVSSKLDNFMTTNHSFMCLIKYGHRLRVNQTFNWNTPKQEHF PDNLL<br>PSWAITLISANGIFVICCLAYCFAPGCRERKSNERLRRESVRPV   |
| SEQ ID<br>NO:85 | Round 2<br>CTLA4BP-5x4-11d | MGHTRRQGISPSKCPYLKFFQLLVLACL SHLCSGVIHVTKEVKEVATLSCGLNVSVEELAQ<br>TRIHQWKEKKMVLTMMSGDMNIWPEYKNRTIFDITNNLSIVILALRPSDEGTYECVVLKYD<br>KDAFKREHLAEVTL SVKADFP TPTSIDFEIPPSNIRRIICSTSGGFPEPHLSWLENGEELN<br>AINTTVSQDPETELYTVSSKLDNFMTANHSFVCLIKYGHRLRVNQTFNWNTPKQEHF PDNLL<br>PSWAITLISVNGIFVICCLTYRFAPRCRERKSNERLRRESVRPV  |
| SEQ ID<br>NO:86 | Round 2<br>CTLA4BP-5x4-12c | MGHTRRQGTSPSKCPYLKFFQLLVLAGLSHFCSGVIHVTKEVKEVATLSCGHNVSVVEELAQ<br>TRIHQWKEKKMVLTMMSGDMNIWPEYKNRTIFDITNNLSIVILALRPSDEGTYECVVLKYE<br>KDAFKREHLAEVMLS VKADFP TPTSIDFEIPPSNIRRIICSTSGGFPEPHLFWLENGEELN<br>AINTTVSQDPETELYTVSSKLDNFMTTNHSFMCLIKYGHRLRVNQTFNWNTPKQEHF PDNLL<br>PSWAITLISANGIFVICCLTYRFAPRCRERKSNETLRRESVRPV  |
| SEQ ID<br>NO:87 | Round 2<br>CTLA4BP-5x4-1f  | MGHTRRQGTSPSKCPYLKFFQLLVMACLSHFCSGVIHVTKEVKEVATLSCGHNVSVVEELAQ<br>TRIHQWKEKKMVLTMMSGDMNIWPEYKNRTIFDITNNLSIVILALRPSDEGTYECVVLKYE<br>KDAFKREHLAEVMLS VKADFP TPTSIDFEIPTSNIRRIICSTSGGFPEPHLFWLENGEELN<br>AINTTVSQDPETELYTVSSKLDNFMTTNHSFMCLIKYGHRLRVNQTFNWNTPKQEHF PDNLL<br>PSWAITLISVNGIFVICCLTYCFAPRCRERRRNERLRRESVCPV  |
| SEQ ID<br>NO:88 | Round 2<br>CTLA4BP-5x5-2e  | MGHTRRQGISPSKCPYLKFFQLLVLACL SHFCSGVIHVTKEVKEVATLSCGLNVSVEELAQ<br>TRIHQWKEKKMVLTMMSGDMNIWPEYKNRTIFDITNNLSIVILALRPSDEGTYECVVLKYE<br>KDAFKREHLAEVMLS VKADFP TPTSIDFEIPPSNIRRIICSTSGGFPEPHLSWLENGEELN<br>AINTTVSQDPETELYAVSSKLDNFMTTNHSFMCLIKYGHRLRVNQTFNWNTPKQEHF PDNLL<br>PSWAITLISVNGIFVICCLTYCFAPRCRERRRNETLRRESVRPV  |
| SEQ ID<br>NO:89 | Round 2<br>CTLA4BP-5x5-6e  | MGHTRRQGISPSKCPYLKFFQLLVLAGLPHLCSGVIHVTKEVKEVATLSCGHNVSVVEELAQ<br>TRIHQWKEKKMVLTMMSGDMNIWPEYKNRTIFDITNNLSIVILALRPSDEGTYECVVLKYE<br>KDAFKREHLAEVMLS VKADFP TPTSIDFEIPPSNIRRIICSTSGGFPEPHLFWLENGEELN<br>AISTTVSQDPETELYTVSSKLDNFMTTNHSFMCLIKYGHRLRVNQTFNWNTTKQEHF PDNLL<br>PSWAITLISANGIFVICCLTHCFAPRCRERKRNERLRRESVRPV  |
| SEQ ID<br>NO:90 | Round 2<br>CTLA4BP-5x6-9d  | MSHTRRQGTSPSKCPYLKFFQLLVLAGLSHLCSGVIHVTKEVKEVATLSCGHNVSVVEELAQ<br>TRIHQWKEKKMVLTMMSGDMNIWPEYKNRTIFDITNNLSIVILALRPSDEGTYECVVLKYE<br>KDAFKREHLAEVMLS VKADFP TPTSIDFEIPTSNIRRIICSTSGGFPEPHLSWLENGEELN<br>AINTTVSQDPETELYTVSSKLDNFMTANHSFVCLIKYGHRLRVNQTFNWNTPKQEHF PDNLL<br>PSWAITLISVNGIFVICCLTYCFAPRCRERRRNERLRRESVRPV  |
| SEQ ID<br>NO:91 | Round 2<br>CTLA4BP-5x8-1f  | MGHTRRQGISPSKCPYLKFFQLLVLACL SHFCSGVIHVTKEVKEVATLSCGHNVSVVEELAQ<br>TRIHQWKEKKMVLTMMSGDMNIWPEYKNRTIFDITNNLSIVILALRPSDEGTYECVVLKYE<br>KDAFKREHLAEVMLS VKADFP TPTSIDFEIPPSNIRRIICSTSGGFPEPHLFWLENGEELN<br>AINTTVSQDPETELYAVSSKLDNFMTTNHSFMCLIRYGHRLRVNQTFNWNTPKQEHF PDNLL<br>PSWAITLISVNGIFVICCLTYCFAPRCRERKSNERLRRESVRPV |
| SEQ ID<br>NO:92 | Round 2<br>CTLA4BP-5x9-12c | MGHTRRQGTSPSKCPYLKFFQLLVLACL SHFCSGVIHVTKEVKEVATLSCGHNVSVVEELAQ<br>TRIHQWKEKKMVLTMMSGDMNIWPEYKNRTIFDITNNLSIVILALRPSDEGTYECVVLKYE<br>KDAFKREHLAEVMLS VKADFP TPTSIDFEIPPSNIRRIICSTSGGFPEPHLSWLENGEELN<br>AINTTASQDPETELYTVSSKLDNFMTTNHSFMCLIKYGHRLRVNQTFNWNTPKQEHF PDNLL<br>PSWAITLISVNGIFVICCLTYCFAPRCRERKSNERLRRESVRPV |
| SEQ ID<br>NO:93 | Baboon<br>B7-1             | MGHTRRQGISPSKCPYLKFFQLLVLACL SHFCSGVIHVTKEVKEVATLSCGHNVSVVEELAQ<br>TRIWQKEKKMVLTMMSGDMNIWPEYKNRTIFDITNNLSIVILALRPSDEGTYECVVLKYE<br>KDAFKREHLAEVMLS VKADFP TPTSIDFEIPPSNIRRIICSTSGGFPEPHLFWLENGEELN<br>AINTTVSQDPETELYTVSSKLDNFMTTNHSFVCLIKYGHRLRVNQTFNWNTPKQEHF PDNLL<br>PSWAITLISVNGIFVICCLTYCFAPRCRERRRNETLRRESVRPV  |
| SEQ ID<br>NO:94 | Orangutan<br>B7-1          | MGHTRRQGTSPSKCPYLKFFQLLVLASL SHFCSGVIHVTKEVKEVATLSCGHNVSVVEELAQ<br>TRIWQKEKKMVLTMMSGDMNIWPEYKNRTIFDITNNLSIVILALRPSDEGTYECVVLKYE<br>KDAFKREHLAEVTL SVKADFP TPTSIDFEIPTSNIRRMICSTSGGFPEPHLSWLENGEELN<br>AISTTVSQDPETELYAVSSKLDNFMTTNHSFMCLIKYGHRLRVNQTFNWNTPKQEHF PDNLL<br>PSWAITLISVNGIFVICCLTYCFAPRCRERRSNERLRRESVRPV  |

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| SEQ ID<br>NO:95 | Round 2<br>CD28A12-5 | ATGGGTCACACAATGAAGTGGGGATCACTACCACCCAAGCGCCCATGCCTCTGGCTCTCTC<br>AGCTCTTGGTGCTCACTGGTCTTTTTTACTTCTGTTCAGGCATCACCCCAAAGAGTGTGAC<br>CAAAAGAGTGAAAGAAACAGTAATGCTATCCTGTGATTACAACACATCCACTGAAGAACTG<br>ACAAGCCTTCGGATCTATTGGCGAAAAGGATAGTAAATGNTGCTGGCCATCCTGCCTGGAA<br>AAGTGCAGGTGTGGCCTGAGTACAAGAACCGTACCATCACTGACATGAACGATAACCTCCG<br>TATTGTGATCCTGGCTCTGCGCCTGTGCGACAGTGGCACCTACACCTGTGTTATTTCAGAAG<br>CCTGATTTGAAAGGGGCTTATAAACTGGAGCACCTGACTTCCGTGAGGTTAATGATCAGAG<br>CTGACTTCCCTGTCCCTACCATAAATGATCTTGGAAATCCATCTCCTAATATCAGAAGGCT<br>AATTTGCTCAACCTCTGGAGGTTTTCCAAGGCCCCACCTCTACTGGTTGGAAAATGGAGAA<br>GAATTAAATGCTACCAACACAACAGTTTCCCAAGATCCTGGAACTGAGCTCTACATGATTA<br>GCAGTGAAGTGGATTTCAATGTGACAAATAACCAACAGCATCGTGTGTCTCATCAAATACGG<br>GGAGCTGTTGGTGTACAGATCTTCCCTTGGAGCAAACCCAAGCAGGAGCCTCCCATTTGAT<br>CAGCTTCCATTCTGGGTCAATTATCCAGTAAGTGGTGCTTTGGTGCTCACTGCGGTAGTTC<br>TCTACTGCCTGGCCTGCAGACATGTTGCGAGGTGGAAAAGAACAAGAAGGAATGAAGAGAC<br>AGTGGGAACCTGAAAGGCTGTCCCTATCTACTTAGGCTCTGCGCAATCCTCGGGCTGA                         |
| SEQ ID<br>NO:96 | Round 2<br>CD28A4-5* | ATGGGTCACACAATGAAGTGGGGATCACTACCACCCAAGTGGCCATGCCTCTGGCTCTCTC<br>AGCTCTTGGTGCTCACTGGTCTTTTTTACTTCTGTTCAGGCATCACCCCAAAGAGTGTGAC<br>CAAAAGAGTGAAAGAAACAGTAATGCTATCCTGTGATTACAACACATCCACTGAAGAACTG<br>ACAAGCCTTCGGATCTATTGGCGAAAAGGATAGTAAATGGTGCTGGCCATCCTGCCTGGAA<br>AAGTGCAGGTGTGGCCTGAGTACAAGAACCGCACCATCACTGACATGAACGATAACCCCCG<br>TATTGTGATCCTGGCTCTGCGCCTGTGCGACAGTGGCACCTACACCTGTGTTATTTCAGAAG<br>CCTGTTTTGAAAGGGGCTTATAAACTGGAGCACCTGACTTCCGTGAGGTTAATGATCAGAG<br>CTGACTTCCCTGTCCCTACCATAAATGATCTTGGAAATCCATCTCCTAATATCAGAAGGCT<br>AATTTGCTCAACCTCTGGAGGTTTTCCAAGGCCCCACCTCTACTGGTTGGAAAATGGAGAA<br>GAATTAAATGCTACCAACACAACACTGTCCCAAGATCCTGAAACCAAGCTCTACATGATTA<br>GCAGTGAAGTGGATTTCAATGTGACAAATAACCAACAGCATCGTGTGTCTCATCAAATACGG<br>GGAGCTGTGCGGTGTACAGATCTTCCCTTGGAGCAAACCCAAGCAGGAGCCTCCCATTTGAT<br>CAGCTTCCATTCTGGGTCAATTATCCAGTAAGTGGTGCTTTGGTGCTCACTGCGGTAGTTC<br>TCTACTGCCTGGCCTGCAGACATGTTGCGAGGTGGAAAAGAACAAGAAGGAATGAAGAGAC<br>AGTGGGAACCGAAAGGCTGTCCCTATCTACTTAGGCTCTGCGCAATCCTCGGGCTGA                         |
| SEQ ID<br>NO:97 | Round 2<br>CD28A4-9  | ATGGGTCACACAATGAAGTGGGGATCACTACCACCCAAGCGCCCATGCCTCTGGCTCTCTC<br>AGCTCTTGGTGCTCACTGGTCTTTTTTACTTCTGTTCAGGCATCACCCCAAAGAGTGTGAC<br>CAAAAGAGTGAAAGAAACAGTAATGCTATCCTGTGATTACAACACATCCACTGAAAACTG<br>ACAAGCCTTCGGATCTATTGGCGAAAAGGATAGTAAATGGTGCTGGCCATCCTGCCTGGAA<br>AAGTGCAGGTGTGGCCTGAGTACAAGAACCGCACCATCACTGACATGAACGATAACCCCCG<br>TATTGTGATCCTGGCTCTGCGCCTGTGCGACAGTGGCACCTACACCTGTGTTATTTCAGAAG<br>CCTGTTTTGAAAGGGGCTTATAAACTGGAGCACCTGACTTCCGTGAGGTTAATGATCAGAG<br>CTGACTTCCCTGTCCCTACCATAAATGATCTTGGAAATCCATCTCCTAATATCAGAAGGCT<br>AATTTGCTCAACCTCTGGAGGTTTTCCAAGGCCCCACCTCTACTGGTTGGAAAATGGAGAA<br>GAATTAAATGCTACCAACACAACAGTTTCCCAAGATCCTGAAACCAAGCTCTACATGATTA<br>GCAGTGAAGTGGATTTCAATGTGACAAATAACCAACAGCATCGTGTGTCTCATCAAATACGG<br>GGAGCTGTGCGGTGTACAGATCTTCCCTTGGAGCAAACCCAAGCAGGAGCCTCCCATTTGAT<br>CAGCTTCCATTCTGGGTCAATTATCCAGTAAGTGGTGCTTTGGTGCTCACTGCGGTAGTTC<br>TCTACTGCCCGGCTGCAGACATGTTGCGAGGTGGAAAAGAACAAGAAGGAATGAAGAGAC<br>AGTGGGAACCTGAAAGGCTGTCCCTATCTACTTAGGCTCTGCGCAATCCTCGGGCTGAGGTA<br>CCAAGCTTAAGTTNA   |
| SEQ ID<br>NO:98 | Round 2<br>CD28A6-9  | ATGGGTCACACAATGAAGTGGGGATCACTACCACCCAAGCGCCCATGCCTCTGGCTCTCTC<br>AGCTCTTGGTGCTCACTGGTCTTTTTTACTTCTGTTCAGGCATCACCCCAAAGAGTGTGAC<br>CAAAAGAGTGAAAGAAACAGTAATGCTATCCTGTGATTACAACACATCCACTGAAGAACTG<br>ACAAGCCTTCGGATCTATTGGCGAAAAGGATAGTAAATGGTGCTGGCCATCCTGCCTGGAA<br>AAGTGCAGGTGTGGCCTGAGTACAAGAACCGCACCATCACTGACATGAACGATAACCCCCG<br>TATTGTGATCCTGGCTCTGCGCCTGTGCGACAGTGGCACCTACACCTGTGTTATTTCAGAAG<br>CCTGTTTTGAAAGGGGCTTATAAACTGGAGCACCTGGCTTCCGTGAGGTTAATGATCAGAG<br>CTGACTTCCCTGTCCCTACCATAAATGATCTTGGAAATCCATCTCCTAATATCAGAAGGCT<br>AATTTGCTCAACCTCTGGAGGTTTTCCAAGGCCCCACCTCTACTGGTTGGAAAATGGAGAA<br>GAATTAAATGCTACCAACACAACAGTTTCCCAAGATCCTGGAAGTGAAGCTCTACATGATTA<br>GCAGTGAAGTGGATTTCAATGTGACAAATAACCAACAGCATCGTGTGTCTCATCAAATACGG<br>GGAGCTGTGCGGTGTACAGATCTTCCCTTGGAGCAAACCCAAGCAGGAGCCTCCCATTTGAT<br>CAGCTTCCATTCTGGGTCAATTATCCAGTAAGTGGTGCTTTGGTGCTCACTGCGGTAGTTC<br>TCTACTGCCCGGCTGCAGACATGTTGCGAGGTGGAAAAGAACAAGAAGGAATGAAGAGAC<br>AGTGGGAACCTGAAAGGCTGTCCCTATCTACTTAGGCTCTGCGCAATCCTCGGGCTGAGGTA<br>CCAAGCTTAAGTTNA |

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| SEQ ID<br>NO:99  | Round 2<br>CD28A6-1 | TCTACTGCCTGGCCTGCAGACATGTTGCGAGGTGGAAAAGAACAAGAAGGAATGAAGAGAC<br>AGTGGGAAGTCAAAGGCTGTCCCTTATCTACTTAGGCTCTGCGCAATCCTCGGGCTGA<br>ATGGGTCACACAATGAAGTGGGGATCACTACCACCCAAGCGCCCATGCCTCTGGCTCCCTC<br>AGCTCTTGGTGCTCACTGGTCTTTTTTACTTCTGTTTCAGGCATCACCCCAAAGAGTGTGAC<br>CAAAAGAGTGAAAGAAACAGTAATGCTATCCTGTGATTACAACACATCCACTGAAGAAGT<br>ACAAGCCTTCGGATCTATTGGCAAAGGATAGTAAAATGGTGCTGGCCATCCTGCCTGGAA<br>AAGTGCAGGTGTGGCCTGAGTACAAGAACCGCACCATCACTGACATGAACGATAACCCCCG<br>TATTGTGATCCTGGCTCTGCGCCTGTGCGACAGTGGCACCTACACCTGTGTTATTTCAGAAG<br>CCTGTTTTGAAAGGGGCTTATAAACTGGAGCACCTGGCTTCCGTGAGGTTAATGATCAGAG<br>CTGACTTCCCTGTCCCTACCATAAATGATCTTGGAAATCCATCTCCTAATATCAGAAGGCT<br>AATTTGCTCAACCTCTGGAGGTTTTCCAAGGCCCCACCTCTACTGGTTGGAAAATGGAGAA<br>GAATTAAATGCTACCAACACAACAGTTTTCCAAGATCCTGAAACCAAGCTCTACATGATTA<br>GCAGTGAAGTGGATTTCAATGTGACAAATAACACAGCATTTGTGTCTCATCAAATACGG<br>GGAGCTGTGCGGTGTACAGATCTTCCCTTGGAGCAAACCCAAGCAGGAGCCTCCCATTTGAT<br>CAGCTTCCATTCCGGGTGATTATCCAGTAAGTGGTGCTTTGGTGCTCACTGCGATAGTTC<br>TCTACTGCCTGGCCTGCAGACATGTTGCGAGGTGGAAAAGAACAAGAAGGAATGAAGAGAC<br>AGTGGGAAGTCAAAGGCTGTCCCTTATCTACTTAGGCTCTGCGCAATCCTCGGGCTGA |
| SEQ ID<br>NO:100 | Round 2<br>CD28A8-4 | ATGGGTCACACAATGAAGTGGGGATCACTACCACCCAAGCGCCCATGCCTCTGGCTCTCTC<br>AGCTCTTGGTGCTCACTGGTCTTTTTTACTTCTGTTTCAGGCATCACCCCAAAGAGTGTGAC<br>CAAAAGAGTGAAAGAAACAGTAATGCTATCCTGTGATTACAACACATCCACTGAAGAAGT<br>ACAAGCCTTCGGATCTATTGGCAAAGGATAGTAAAATGGTGCTGGCCATCCTGCCTGGAA<br>AAGTGCAGGTGTGGCCTGAGTACAAGAACCGCACCATCACTGACATGAACGATAACCCCCG<br>TATTGTGATCCTGGCTCTGCGCCTGTGCGACAGTGGCACCTACACCTGTGTTATTTCAGAAG<br>CCTGTTTTGAAAGGGGCTTATAAACTGGAGCACCTGACTTCCGTGAGGTTAATGATCAGAG<br>CTGACTTCCCTGTCCCTACCATAAATGATCTTGGAAATCCATCTCCTAATATCAGAAGGCT<br>AATTTGCTCAACCTCTGGAGGTTTTCCAAGGCCCCACCTCTACTGGTTGGAAAATGGAGAA<br>GAATTAAATGCTACCAACACAACAGTTTTCCAAGATCCTGGAAGTGAAGCTCTACATGATTA<br>GCAGTGAAGTGGATTTCAATGTGACAAATAACACAGCATCGTGTGTCTCATCAAATACGG<br>GGAGCTGTGCGGTGTACAGATCTTCCCTTGGAGCAAACCCAAGCAGGAGCCTCCCATTTGAT<br>CAGCTTCCATTCTGGGTGATTATCCAGTAAGTGGTGCTTTGGTGCTCACTGCGGTAGTTC<br>TCTACTGCCTGGCCTGCAGACATGTTGCGAGGTGGAAAAGAACAAGAAGGAATGAAGAGAC<br>AGTGGGAAGTCAAAGGCTGTCCCTTATCTACTTAGGCTCTGCGCAATCCTCGGGCTAG  |
| SEQ ID<br>NO:101 | Round 2<br>CD28A8-6 | ATGGGTCACACAATGAAGTGGGGATCACTACCACCCAAGCGCCCATGCCTCTGGCTCTCCC<br>AGCTCTTGGTGCTCACTGGTCTTTTTTACTTCTGTTTCAGGCATCACCCCAAAGAGTGTGAC<br>CAAAAGAGTGAAAGAAACAGTAATGCCATCCTGTGATTACAGCACATCCACTGAAGAAGT<br>ACAAGCCTTCGGATCTATTGGCAAAGGATAGTAAAATGGTGCTGGCCATCCTGCCTGGAA<br>AAGTGCAGGTGTGGCCTGAGTACAAGAACCGCACCATCACTGACATGAACGATAACCCCCG<br>TATTGTGATCCTGGCTCTGCGCCTGTGCGACAGTGGCACCTACACCTGCGTGGTTTCAGAAG<br>AATGAGAACGGGTCTTTTCAGACGGGAGCACCTGACCTCCGTGACACTGTCCATCAGAGCTG<br>ACTTCCCTGTCCCTAGCATAACTGACATTGGACATCCCGCCCCTAATGTGAAAAGGATAAG<br>ATGCTCCGCTCTGGAGGTTTTCCAGAGCCTCGCCTCGCCTGGATGGAAGATGGAGAAGAA<br>CTAAACGCGCTCAACACAACGGTTGACCAAGGATTTGGACACGGAGCTCTACAGCGTCAGCA<br>GTGAGCTGGATTTCAATGTGACAAATAACACAGCATCGTGTGTCTCATCAAATACGGGGA<br>GCTGTGCGGTGTACAGATCTTCCCTTGGAGCAAACCCAAGCAGGAGCCTCCCATTTGATCAG<br>CTTCCATTCTGGGTGATTATCCAGTAAGTGGTGCTTTGGTGCTCACTGCGGTAGTTCCT<br>ACTGCCTGGCCTGCAGACATGTTGCGAGGTGGAAAAGAACAAGAAGGAATGAAGAGACAGT<br>GGGAAGTCAAAGGCTGTCCCTTATCTACTTAGGCTCTGCGCAATCCTCGGGCTGA  |
| SEQ ID<br>NO:102 | Round 2<br>CD28B2-8 | ATGGGTCACACAATGAAGTGGGGATCACTACCACCCAAGCGCCCATGCCTCTGGCTCTCTC<br>AGCTCTTGGTGCTCACTGGTCTTTTTTACTTCTGTTTCAGGCATCACCCCAAAGAGTGTGAC<br>CAAAAGAGTGAAAGAAACAGTAATGCTATCCTGTGATTACAACACATCCACTGAAGAAGT<br>ACAAGCCTTCGGATCTATTGGCAAAGGATAGTAAAATGGTGCTGGCCATCCTGCCTGGAA<br>AAGTGCAGGTGTGGCCTGAGTACAAGAACCGCACCATCACTGACATGAACGATAACCCCCG<br>TATTGTGATCCTGGCTCTGCGCCTGTGCGACAAGGGCACCTACACCTGTGTTATTTCAGAAG<br>CCTGTTTTGAAAGGGGCTTATAAACTGGAGCACCTGGCTTCCGTGAGGTTAATGATCAGAG<br>CTGACTTCCCTGTCCCTACCATAAATGATCTTGGAAATCCATCTCCTAATATCAGAAGGCT<br>AATTTGCTCAACCTCTGGAGGTTTTCCAAGGCCCCACCTCTACTGGTTGGAAAATGGAGAA<br>GAATTAAATGCTACCAACACAACAGTTTTCCAAGATCCTGGAAGTGAAGCTCTACATGATTA<br>GCAGTGAAGTGGATTTCAATGTGACAAATAACACAGCATCGTGTGTCTCATCAAATACGG<br>GGAGCTGTGCGGTGTACAGATCTTCCCTTGGAGCAAACCCAAGCAGGAGCCTCCCATTTGAT<br>GGAGCTGTGCGGTGTACAGATCTTCCCTTGGAGCAAACCCAAGCAGGAGCCTCCCATTTGAT   |

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|                  |                      | CAGCTTCCATTCTGGGTCAATATCCCAGTAAGTGGTGCTTTGGTGCTCACTGCGGTAGTTC<br>TCTACTGCCCTGGCCTGCAGACATGTTGCGAGGTGGAAAAGAACGAGAAGGAATGAAGAGAC<br>AGTGGGAAC TGAAAGGCTGTCCCTATCTACTTAGGCTCTGCGCAATCCTCGGGCTGA  |
| SEQ ID<br>NO:103 | Round 2<br>CD28B4-3  | ATGGGTACACAAATGAAGTGGGGATCACTACCACCCAAGCGCCCATGCCTCTGGCTCTCTC<br>AGCTCTTGGTGCTCACTGGTCTTTTTTACTTCTGTTTCAGGCATCACCCCAAAGAGTGTGAC<br>CAAAAGAGTGAAAGAAACAGTAATGCTATCCTGTGATTACAACACATCCACTGAAGAACTG<br>ACAAGCCTTCGGATCTATTGGCAAAGGATAGTAAAATGGTGCTGGCCATCCTGCCTGGAA<br>AAGTGCAGGTGTGGCCTGAGTACAAGAACCGCACCATCACTGACATGAACGATAACCCCCG<br>TATTGTGATCCTGGCTCTGCGCCTGTGCGACAGTGGCACCTACACCTGTGTTATTTCAGAAG<br>CCTGTTTTTGAAGGGGCTTATAAACTGGAGCACCTGACTTCCGTGAGGTTAATGATCAGAG<br>CTGACTTCCCTGTCCCTACCATAAATGATCTTGGAAATCCATCTCCTAATATCAGAAGGCT<br>AATTTGCTCAACCTCTGGAGGTTTTTCCAAGGCCCCACCTCTACTGGTTGGAAAATGGAGAA<br>GAATTAATGCTACCAACACAACACTGTCCCAAGATCCTGAAACCAAGCTCTACATGATTA<br>GCAGTGAAC TGGATTTCAACATGACAAGCAATCACAGCTTCTTGTGTCTTGTCAAGTATGG<br>AGACTTAACAGTGTACAGACCTTCTACTGGCAAGAATCCAAACCAACCCCTTCTGCTAAT<br>CAGCACCTGACCTGGACCATTATTATCCCAGTCTCAGCATTTGGGATTTCTGTGATCATTG<br>CAGTTATACTAACATGCCTGACCTGCAGAAATGCTGCAATACGCAGACAGAGAAGGGAGAA<br>TGAAGTGGAAATGCAAAGTTGCTCTCAGTCTCCATAG   |
| SEQ ID<br>NO:104 | Round 2<br>CD28B6-3  | ATGGGTACACAAATGAAGTGGGGATCACTACCACCCAAGCGCCCATGCCTCTGGCTCTCTC<br>AGCTCTTGGTGCTCACTGGTCTTTTTTACTTCTGTTTCAGGCATCACCCCAAAGAGTGTGAC<br>CAAAAGAGTGAAAGAAACAGTAATGCTATCCTGTGATTACAACACATCCACTGAAGAACTG<br>ACAAGCCTTCGGATCTATTGGCAAAGGATAGTAAAATGGTGCTGGCCATCCTGCCTGGAA<br>AAGTGCAGGTGTGGCCTGAGTACAAGAACCGCACCATCACTGACATGAACGATAACCCCCG<br>TATTGTGATCCTGGCTCTGCGCCTGTGCGACAGTGGCACCTACACCTGTGTTATTTCAGAAG<br>CCTGATTTTGAAGGGGCTTATAAACTGGAGCACCTGACTTCCGTGAGGTTAATGATCAGAG<br>CTGACTTCCCTGTCCCTACCATAAATGATCTTGGAAATCCATCTCCTAATATCAGAAGGCT<br>AATTTGCTCAACCTCTGGAGGTTTTTCCAAGGCCCCACCTCTACTGGTTGGAAAATGGAGAA<br>GAATTAATGCTACCAACACAACACTGTCCCAAGATCCTGAAACCAAGCTCTACATGATTA<br>GCAGTGAAC TGGATTTCAACATGACAAGCAATCACAGCTTCTTGTGTCTTGTCAAGTATGG<br>AGACTTAACAGTGTACAGACCTTCTACTGGCAAGAATCCAAACCAACCCCTTCTGCTAAT<br>CAGCACCTGACCTGGACCATTATTATCCCAGTCTCAGCATTTGGGATTTCTGTGATCATTG<br>CAGTTATACTAACATGCCTGACCTGCAGAAATGCTGCAATACGCAGACAGAGAAGGGAGAA<br>TGAAGTGAATAATGCAAAGTTGCTCTCAGTCTCCATGAG |
| SEQ ID<br>NO:105 | Round 2<br>CD28B6-6  | ATGGGTACACAAATGAAGTGGGGATCACTACCACCCAAGCGCCCATGCCTCTGGCTCTCTC<br>AGCTCTTGGTGCTCACTGGTCTTTTTTACTTCTGTTTCAGGCATCACCCCAAAGAGTGTGAC<br>CAAAAGAGTGAAAGAAACAGTAATGCTATCCTGTGATTACAGCACATCCACTGAAGAACTG<br>ACAAGCCTTCGGATCTATTGGCAAAGGATAGTAAAATGGTGCTGGCCATCCTGCCTGGAA<br>AAGTGCAGGTGTGGCCTGAGTACAAGAACCGCACCATCACTGACATGAACGATAACCCCCG<br>TATTGTGATCCTGGCTCTGCGCCTGTGCGACAAGGGCACCTACACCTGTGTTATTTCAGAAG<br>CCTGTTTTTGAAGGGGCTTATAAACTGGAGCACCTGACCTCCGTGACACTGTCCATCAGAG<br>CTGACTTCCCTGTCCCTAGCATAACTGACATTGGACATCCCGCCCTAATGTGAAAAGGAT<br>AAGATGCTCCGCTCTGGAGGTTTTTCCAGAGCCTCGCCTCGCCTGGATGGAAGATGGAGAA<br>GAACTAAACGCCGTCAACACGACGGTTGACCAGGATTTGGACACGGAGCTCTACAGCGTCA<br>GCAGTGAAC TGGATTTCAATGCGACAAATAACCACAGCATCGTGTGTCTCATCAAATACGG<br>GGAGCTGTGCGGTGTACAGATCTTCCCTTGGAGCAAACCCAAGCAGGAGCCTCCCATTGAT<br>CAGCTTCCATTCTGGGTCAATTGTCCAGTAAGTGGTGCTTTGGTGCTCACTGCGGTAGTTC<br>TCTACTGCCTGGCCTGCAGACATGTTGCGAGGTGA  |
| SEQ ID<br>NO:106 | Round 2<br>CD28B8-5* | ATGGGTACACAAATGAAGTGGGGATCACTACCACCCAAGCGCCCATGCCTCTGGCTCTCTC<br>AGCTCTTGGTGCTCACTGGTCTTTTTTACTTCTGTTTCAGGCATCACCCCAAAGAGTGTGAC<br>CAAAAGAGTGAAAGAAACAGTAATGCTATCCTGTGATTACAGCACATCCACTGAAGAACTG<br>ACAAGCCTTCGGATCTATTGGCAAAGGATAGTAAAATGGTGCTGGCCATCCTGCCTGGAA<br>AAGTGCAGGTGTGGCCTGAGTACAAGAACCGCACCATCACTGACATGAACGATAACCCCCG<br>TATTGTGATCCTGGCTCTGCGCCTGTGCGACAGTGGCACCTACACCTGTGTTATTTCAGAAG<br>CCTGTTTTTGAAGGGGCTTATAAACTGGAGCACCTGACTTCCGTGAGGTTAATGATCAGAG<br>CTGACTTCCCTGTCCCTACCATAAATGATCTTGGAAATCCATCTCCTAATATCAGAAGGCT<br>AATTTGCTCAACCTCTGGAGGTTTTTCCAAGGCCCCACCTCTACTGGTTGGAAAATGGAGAA<br>GAATTAATGCTACCAACACAACACTGTCCCAAGATCCTGGAATGAGCTCTACATGATTA<br>GCAGTGAAC TGGATTTCAATGTGACAAATAACCACAGCATCGTGTGTCTCATCAAATACGG<br>GGAGCTGTGCGGTGTACAGATCTTCCCTTGGAGCAAACCCAAGCAGGAGCCTCCCATTGAT<br>CAGCTTCCATTCTGGGTCAATTGTCCAGTAAGTGGTGCTTTGGTGCTCACTGCGGTAGTTC<br>TCTACTGCCTGGCCTGCAGACATGTTGCGAGGTGA  |



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|                  |                      | CAGCTTCCATTCTGGGTCAATTATCCCAGTAAGTGGTGCTTTGGTGCTCACTGCGGTAGTTC<br>TCTACTGCCTGGCCTGCAGACATGTTGCGAGGTGGAAAAGAACAAGAAGGAATGAAGAGAC<br>AGTGGGAACTGAAAGGCTGTCCCTATCTACTTAGGCTCTGCACAATCCTCGGGCTGA   |
| SEQ ID<br>NO:107 | Round 2<br>CD28C11-5 | ATGGGTACACAATGAAGTGGGGATCACTACCACCCAAGCGCCCATGCCTCTGGCTCTCTC<br>AGCTCTTGGTGCTCACTGGTCTTTTTTACTTCTGTTCAGGCATCACCCCAAAGAGTGTGAC<br>CAAAAGAGTGAAAGAAACAGTAATGCTATCCTGTGATTACAACACATCCACTGAAGAACTG<br>ACAAGCCTTCGGATCTATTGGCAAAAGGATAGTAAAATGGTGCTGGCCATCCTGCCTGGAA<br>AAGTGCAGGTGTGGCCTGAGTACAAGAACCGCACCATCACTGACATGAACGATAACCCCCG<br>TATTGTGATCCTGGCTCTGCGCCTGTGCGACAGTGGCACCTACACCTGTGTTATTTCAGAAG<br>CCTGTTTTGAAAGGGGCTTATAAACTGGAGCACCTGACTTCCGTGAGGTTAATGATCAGAG<br>CTGACTTCCCTGTCCCTACCATAAATGATCTTGGAATCCATCTCCTAATATCAGAAGGCT<br>AATTTGCTCAACCTCTGGAGGTTTTCCAAGGCCCCACCTCTACTGGTTGGAAAATGGAGAA<br>GAATTAAATGCTACCAACACAACAGTTTCCCAAGATCCTGGAACCTGAGCTCTACATGATTA<br>GCAGTGAACCTGGATTTCATGTGACAAATAAACCACAGCATCGCGTGTCTCATCAAATACGG<br>GGAGCTGTGCGGTGTACAGATCTTCCCTTGAGCAAAACCCAAGCAGGAGCCTCCCATTTGAT<br>CAGCTTCCATTCTGGGTCAATTATCCCAGTAAGTGGTGCTTTGGTGCTCACTGCGGTAGTTC<br>TCTACTGCCTGGCCTGCAGACATGTTGCGAGGTGGAAAAGAACAAGAAGGAATGAAGAGAC<br>AGTGGGAACTGAAAGGCTGTCCCTATCTACTTAGGCTCTGCGCAATCCTCGGGCTAG |
| SEQ ID<br>NO:108 | Round 2<br>CD28C6-1  | ATGGGTACACAATGAAGTGGGGATCACTACCACCCAAGCGCCCATGCCTCTGGCTCTCTC<br>AGCTCTTGGTGCTCACTGGTCTTTTTTACTTCTGTTCAGGCATCACCCCAAAGAGTGTGAC<br>CAAAAGAGTGAAAGAAACAGTAATGCTATCCTGTGATTACAGCACATCCACTGAAGAACTG<br>ACAAGCCTTCGGATCTATTGGCAAAAGGATAGTAAAATGGTGCTGGCCATCCTGCTGGAA<br>AAGTGCAGGTGTGGCCTGAGTACAAGAACCGCACCATCACTGACATGAACGATAACCCCCG<br>TATTGTGATCCTGGCTCTGCGCCTGTGCGACAGTGGCACCTACACCTGTGTTATTTCAGAAG<br>CCTGTTTTGAAAGGGGCTTATAAACTGGAGCACCTGGCTTCCGTGAGGTTAATGATCAGAG<br>CTGACTTCCCTGTCCCTACCATAAATGATCTTGGAATCCATCTCCTAATATCAGAAGGCT<br>AATTTGCTCAACCTCTGGAGGTTTTCCAAGGCCCCACCTCTACTGGTTGGAAAATGGAGAA<br>GAATTAAATGCTACCAACACAACAGTTTCCCAAGATCCTGGAACCTGAGCTCTACATGATTA<br>GCAGTGAACCTGGATTTCATGTGACAAATAAACCACAGCATCGTGTGTCTCATCAAATACGG<br>GGAGCTGTGCGGTGTACAGATCTTCCCTTGAGCAAAACCCAAGCAGGAGCCTCCCATTTGAT<br>CAGCTTCCATTCTGGGTCAATTATCCCAGTAAGTGGTGCTTTGGTGCTCACTGCGGTAGTTC<br>TCTACTGCCTGGCCTGCAGACATGTTGCGAGGTGGAAAAGAACAAGAAGGAATGAAGAGAC<br>AGTGGGAACTGAAAGGCTGTCCCTATCTACTTAGGCTCTGCGCAATCCTCGGGCTGA  |
| SEQ ID<br>NO:109 | Round 2<br>CD28C7-3  | ATGGGTACACAATGAAGTGGGGATCACTACCACCCAAGCGCCCATGCCTCTGGCTCTCTC<br>AGCTCTTGGTGCTCACTGGTCTTTTTTACTTCTGTTCAGGCATCACCCCAAAGAGTGTGAC<br>CAAAAGAGTGAAAGAAACAGTAATGCTATCCTGTGATTACAGCACATCCACTGAAGAACTG<br>ACAAGCCTTCGGATCTATTGGCAAAAGGATAGTAAAATGGTGCTGGCCATCCTGCCTGGAA<br>AAGTGCAGGTGTGGCCTGAGTACAAGAACCGCACCATCACTGACATGAACGATAACCCCCG<br>TATTGTGATCCTGGCTCTGCGCCTGTGCGACAGTGGCACCTACACCTGTGTTATTTCAGAAG<br>CCTGATTTGAAAGGGGCTTATAAACTGGAGCACCTGACTTCCGTGAGGTTAATGATCAGAG<br>CTGACTTCCCTGTCCCTAGCATAACTGACATTGGACATCCCGCCCTAATGTGAAAAGGAT<br>AAGATGCTCCGCCTCTGGAGATTTTCCAGAGCCTCGCCTCGCCTGGATGGAAGATGGAGAA<br>GAACTAAACGCCGTCAACACGACGGTTGACCAGGATTTGGACACGGAGCTCTACAGCGTCA<br>GCAGTGAACCTGGATTTCATGTGACAAATAAACCACAGCATCGTGTGTCTCATCAAATACGG<br>GGAGCTGTGCGGTGTACAGATCTTCCCTTGAGCAAAACCCAAGCAGGAGCCTCCCATTTGAT<br>CAGCTTCCATTCTGGGTCAATTATCCCAGTAAGTGGTGCTTTGGTGCTCACTGCGGTAGTTC<br>TCTACTGCCTGGCCTGCAGACATGTTGCGAGGTGGAAAAGAACAAGAAGGAATGAAGAGAC<br>AGTGGGAACTGAAAGGCTGTCCCTATCTACTTAGGCTCTGCGCAATCCTCGGGCTGA  |
| SEQ ID<br>NO:110 | Round 2<br>CD28C8-6  | ATGGGTACACAATGAAGTGGGGATCACTACCACCCAAGCGCCCATGCCTCTGGCTCTCTC<br>AGCTCTTGGTGCTCACTGGTCTTTTTTACTTCTGTTCAGGCATCACCCCAAAGAGTGTGAC<br>CAAAAGAGTGAAAGAAACAGTAATGCTATCCTGTGATTACAACACATCCACTGAAGAACTG<br>ACAAGCCTTCGGATCTATTGGCAAAAGGATAGTAAAATGGTGCTGGCCATCCTGCCTGGAA<br>AAGTGCAGGTGTGGCCTGAGTACAAGAACCGCACCATCACTGACATGAACGATAACCCCCG<br>TATTGTGATCCTGGCTCTGCGCCTGTGCGACAGTGGCACCTACACCTGTGTTATTTCAGAAG<br>CCTGTTTTGAAAGGGGCTTATAAACTGGAGCACCTGGCTTCCGTGAGGTTAATGATCAGAG<br>CTGACTTCCCTGTCCCTACCATAAATGATCTTGGAATCCATCTCCTAATATCAGAAGGCT<br>AATTTGCTCAACCTCTGGAGGTTTTCCAAGGCCCCACCTCTACTGGTTGGAAAATGGAGAA<br>GAATTAAATGCTACCAACACAACAGTTTCCCAAGATCCTGGAACCTGAGCTCTACATGATTA<br>GCAGTGAACCTGGGTTTCATGTGACAAATAAACCACAGCATCGTGTGTCTCATCAAATACGG<br>GGAGCTGTGCGGTGTACAGATCTTCCCTTGAGCAAAACCCAAGCAGGAGCCTCCCATTTGAT<br>CAGCTTCCATTCTGGGTCAATTATCCCAGTAAGTGGTGCTTTGGTGCTCACTGCGGTAGTTC<br>TCTACTGCCTGGCCTGCAGACATGTTGCGAGGTGGAAAAGAACAAGAAGGAATGAAGAGAC<br>AGTGGGAACTGAAAGGCTGTCCCTATCTACTTAGGCTCTGCGCAATCCTCGGGCTGA |

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|                  |                      | GGAGCTGTCGGTGTACAGATCTTCCCTTGGAGCAAACCCAAGCAGGAGCCTCCCATTTGAT<br>CAGCTTCCATTCTGGGTCAATTATCCCAGTAAGTGGTGCTTTGGTGCTCACTGCGGTAGTTC<br>TCTACTGCCCTGGCCTGCAGACATGTTGCGAGGTGGAAAAGAACAAGAAGGAATGAAGAGAC<br>AGTGGGAACGTGAAAGGCTGTCCCTATCTACTTAGGCTCTGCGCAATCCTCGGGCTGAG   |
| SEQ ID<br>NO:111 | Round 2<br>CD28C9-5* | ATGGGTCACACAATGAAGTGGGGATCACTACCACCAAGCGCCCATGCCTCTGGCTCTCTC<br>AGCTCTTGGTGCTCACTGGTCTTTTTTACTTCTGTTTCAAGCATCACCCCAAGAGTGTGAC<br>CAAAAGAGTGAAAGAAACAGTAATGCTATCCTGTGATTACAGCACATCCACTGAAGAAGT<br>ACAAGCCTTCGGATCTATTGGCAAAAGGATAGTAAATGGTGCTGGCCATCCTGCCTGGAA<br>AAGTGCAGGTGTGGCCTGAGTACAAGAACCGCACCATCACTGACATGAACGATAACCCCCG<br>TATTGTGATCCTGGCTCTGCGCCTGTGCGACAGTGGCACCTACACCTGTGTTATTCAGAAG<br>CCTGTTTTTGAAGGGGCTTATAAACTGGAGCACCTGGCTTCTGTGAGGTAAATGATCAGAG<br>CTGACTTCCCTGTCCCTACCATAAATGATCTTGGAAATCCATCTCCTAATATCAGAAGGCT<br>AATTTGCTCAACCTCTGGAGGTTTTTCCAAGGCCCCACCTCTACTGGTTGGAAAATGGAGAA<br>GAATTAATGCTACCAACACAACAGTTTCCCAAGATCCTGGAATCCTGGAATGAGCTCTACATGATTA<br>GCAGTGAACGTGGATTTCATGTGACAAATAACACACAGCATCGTGTGTCTCATCAATACGG<br>GGAGCTGTCGGTGTACAGATCTTCCCTTGGAGCAAACCCAAGCAGGAGCCTCCCATTTGAT<br>CAGCTTCCATTCTGGGTCAATTATCCCAGTAAGTGGTGCTTTGGTGCTCACTGCGGTAGTTC<br>TCTACTGCCCTGGCCTGCAGACATGTTGCGAGGTNGAAAAGAACAAGAAGGAATGAAGAGAC<br>AGTGGGAACGTGAAAGGCTGTCCCTATCTACTTAGGCTCTGCGCAATCCTCGGGCTAG |
| SEQ ID<br>NO:112 | Round 2<br>CD28C2-4  | ATGGGCCACACGCTGAGGCGGGAACTCCACTGCCCAGGTGTCTACACCTCAAGCTCTGCC<br>TGCTCTTGGCGCTGGCGGGTCTCCACTTCTCTTCAAGGTATCAGCCAGGTACCAAGTCGGT<br>GAAAGAAATGGCAGCACTGTCTGTGATTACAACATTTCTATCGATGAATGGCGAGAATG<br>CGCATATACCTGGCAGAAGGACCAACAGATGGTGCTGAGCATCATCTCTGGGCAAGTGGAGG<br>TGTGGCCTGAGTACAAGAACCGCACCATCACTGACATGAACGATAACCCCCGTATTGTGAT<br>CCTGGCTCTGCGCCTGTGCGACAGTGGCACCTACACCTGTGTTATTTCAGAAGCCTGTTTTG<br>AAAGGGGCTTATAAACCGGAGCACCTGGCTTCCGTGAGGTAAATGATCAGAGCTGACTTCC<br>CTGTCCCTACCATAAATGATCTTGGAAATCCATCTCCTAATATCAGAAGGCTAATTTGCTC<br>AACCTCTGGAGGTTTTTCCAAGGCCCCACCTCTACTGGTTGGAAAATGGAGAAGAATTAAT<br>GCTACCAACACAACACTGTCCCAAGATCCTGAAACCAAGCTCTACATGATTAGCAGTGAAC<br>TGGATTTCAACATGACAAGCAATCACAGCTTCTTGTGTCTTGTCAAGTATGGAGACTTAAC<br>AGTGTACAGACCTTCTACTGGCAAGATCCAAACCAACCCCTTCTGCTAATCAGCACCTG<br>ACCTGGACCATATTATCCCAGTCTCAGCATTTGGGATTCTGTGATCATTCAGTTATATAC<br>TAACATGCCCTGACCTGCAGAAATGCTGCAATACGCAGACAGAGAAGGGAGAATGAAGTGGAA<br>AATGCAAAGTTGCTCTCAGTCTCCATAG                                       |
| SEQ ID<br>NO:113 | Round 2<br>CD28D2-3  | ATGGGTCACACAATGAAGTGGGGATCACTACCACCAAGCGCCCATGCCTCTGGCTCTCTC<br>AGCTCTTGGTGCTCACTGGTCTTTTTTACTTCTGTTTCAAGCATCACCCCAAGAGTGTGAC<br>CAAAAGAGTGAAAGAAACAGTAATGCTATCCTGTGATTACAACACATCCACTGAAGAAGT<br>ACAAGCCTTCGGATCTATTGGCAAAAGGATAGTAAATGGTGCTGGCCATCCTGCCTGGAA<br>AAGTGCAGGTGTGGCCTGAGTACAAGAACCGCACCATCACTGACATGAACGATAACCCCCG<br>TATTGTGATCCAGGCTCTGCGCCTGTGCGACAGTGGCACCTACACCTGTGTTATCCAGAAG<br>CCTGTTTTTGAAGGGGCTTATAAACTGGAGCACCTGGCTTCCGTGAGGTAAATGATCAGAG<br>CTGACTTCCCTGTCCCTACTGATCTTGGAAATCCATCTCCTAATATCAGAAGGCTAATTTG<br>CTCAACCTCTGGAGGTTTTTCCAAGGCCCCACCTCTACTGGTTGGAAAATGGAGAAGAATTA<br>AATGCTACCAACACAACAGTTTCCCAAGATCCTGGAATGAGCTCTACATGATTAGCAGTG<br>AACTGGATTTCAATGTGACAAATAACACAGCATCGTGTGTCTCATCAATACGGGGAGCT<br>GTCGGTGTACAGATCTTCCCTTGGAGCAAACCCAAGCAGGAGCCTCCCATTTGATCAGCTT<br>CCATTCTGGGTCAATTATCCCAGTAAGTGGTGCTTTGGTGCTCACTGCGGTAGTTCTCTACT<br>GCCTGGCCTGCAGACATGTTGCGAGGTGGAAAAGAACAAGAAGGAATGAAGAGACAGTGGG<br>AACTGAAAGGCTGTCCCTATCTACTTAGGCTCTGCGCAATCCTCGGGCTGA                  |
| SEQ ID<br>NO:114 | Round 2<br>CD28D2-9  | ATGGGTCACACAATGAAGTGGGGATCACTACCACCAAGCGCCCATGCCTCTGGCTCTCTC<br>AGCTCTTGGTGCTCACTGGTCTTTTTTACTTCTGTTTCAAGCATCACCCCAAGAGTGTGAC<br>CAAAAGAGTGAAAGAAACAGTAATGCTATCCTGTGATTACAACACATCCACTGAAGAAGT<br>ACAAGCCTTCGGATCTATTGGCAAAAGGATAGTAAATGGTGCTGGCCATCCTGCCTGGAA<br>AAGTGCAGGTGTGGCCTGAGTACAAGAACCGCACCATCACTGACATGAACGATAACCCCCG<br>TATTGTGATCCTGGCTCTGCGCCTGTGCGACAGTGGCACCTACACCTGTGTTATTCAGAAG<br>CCTGTTTTTGAAGGGGCTTATAAACTGGAGCACCTGACTTCCGTGAGGTAAATGATCAGAG<br>CTGACTTCCCTGTCCCTACCATAAATGATCTTGGAAATCCATCTCCTAATATCAGAAGGCT<br>AATTTGCTCAACCTCTGGAGGTTTTTCCAAGGCCCCACCTCTACTGGTTGGAAAATGGAGAA<br>GAATTAATGCTACCAACACAACACTGTCCCAAGATCCTGAAACCGAGCTCTACATGATTA  |

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|                  |                      | GCAGTGAAGTGGATTTCAATGTGACAAATAACCCACAGCATCGTGTGTCTCATCAAATACGG<br>GGAGCTGTGCGGTGTACAGATCTTCCCTTGGAGCAAACCAAGCAGGAGCCTCCCATTGAT<br>CAGCTTCCATTCTGGGTGATTATCCAGTAAGTGGTGCTTTGGTGCTCACTGCGGTAGTTC<br>TCTACTGCCTGGCCTGCAGACATGTTGCGAGGTGGAAAAGAACAAGAAGGAATGAAGAGAC<br>AGTGGGAAGTGAAGGCTGTCCCTATCTACTTAGGCTCTGCGCAATCCTCGGGCTGA   |
| SEQ ID<br>NO:115 | Round 2<br>CD28D8-9  | ATGGGTACACAAATGAAGTGGGGATCACTACCACCAAGCGCCCATGCCTCTGGCTCTCTC<br>AGCTCTTGGTGCTCACTGGTCTTTTTTACTTCTGTTCAGGCATCACCCCAAAGAGTGTGAC<br>CAAAAGAGTGAAAGAAACAGTAATGCTATCCTGTGATTACAGCACATCCACTGAAGAAGTGA<br>ACAAGCCTTCGGATCTATTGGCAAAAGGATAGTAAAATGGTGCTGGCCATCCTGCCTGGAA<br>AAGTGCAGGTGTGGCCTGAGTACAAGAACCGCACCATCACTGACATGAACGATAACCCCCG<br>TATTGTGATCCTGGCTCTGCGCCTGTGCGACAGTGGCACCTACACCTGTGTTATTTCAGAAG<br>CCTGTTTTGAAAGGGGCTTATAAACTGGAGCACCTGACTTCCGTGAGGTTAATGATCAGAG<br>CTGACTTCCCTGTCCCTACCATAAATGATCTTGAAATCCATCTCCTAATATCAGAAGGCT<br>AATTTGCTCAACCTCTGGAGGTTTCCAAGGCCCCACCTCTACTGGTTGGAATGGAGAA<br>GAATTAAATGCTACCAACACAACAGTTTCCAAGATCCTGGAAGTGAAGTCTACATGATTA<br>GCAGTGAAGTGGATTTCAATGTGACAAATAACCCACAGCATCGTGTGTCTCATCAAATACGG<br>GGAGCTGTGCGGTGTACAGATCTTCCCTTGGAGCAAACCAAGCAGGAGCCTCCCATTGAT<br>CAGCTTCCATTCTGGGTGATTATCCAGTAAGTGGTGCTTTGGTGCTCACTGCGGTAGTTC<br>TCTACTGCCTGGCCTGCAGACATGTTGCGAGGTGGAAAAGAACAAGAAGGAATGAAGAGAC<br>AGTGGGAAGTGAAGGCTGTCCCTATCTACTTAGGCTCTGCGCAATCCTCGGGCTGA   |
| SEQ ID<br>NO:116 | Round 2<br>CD28D11-1 | ATGGGTACACAAATGAAGTGGGGATCACTACCACCAAGCGCCCATGCCTCTGGCTCTCTC<br>AGCTCTTGGTGCTCACTGGTCTTTTTTACTTCTGTTCAGGCATCACCCCAAAGAGTGTGAC<br>CAAAAGAGTGAAAGAAACAGTAATGCTATCCTGTGATTACAACACATCCACTGAAGAAGTGA<br>ACAAGCCTTCGGATCTATTGGCAAAAGGATAGTAAAATGGTGCTGGCCATCCTGCCTGGAA<br>AAGTGCAGGTGTGGCCTGAGTACAAGAACCGCACCATCACTGACATGAACGATAACCCCCG<br>TATTGTGATCCTGGCTCTGCGCCTGTGCGACAGTGGCACCTACACCTGCGTGGTTTCAGAAG<br>AATGAGAACGGGTCTTTCAGACGGGAGCACCTGACCTCCGTGACACTGTCCATCAGAGCTG<br>ACTTCCCTGTCCCTAGCATAACTGACATTGGACATCCCCGCCCTAATGTGAAAAGGATAAG<br>ATGCTCCGCCTCTGGAGATTTCCAGAGCCTCGCCTCGCCTGGATGGAAGATGGAGAAGAA<br>CTAAACGCCGTCAACACGACGGTTGACCAGGATTTGGACACGGAGCTCTACAGCGTCAGCA<br>GTGAAGTGGATTTCAATGTGACAAATAACCCACAGCATCGTGTGTCTCATCAAATACGGGA<br>GCTGTGCGGTGTACAGATCTTCCCTTGGAGCAAACCAAGCAGGAGCCTCCCATTGATCAG<br>CTTCCATTCTGGGTGATTATCCTAGTAAGTGGTGCTTTGGTGCTCACTGCGGTAGTTCTCT<br>ACTGCCTGGCCTGCAGACATGTTGCGAGGTGGAAAAGAACAAGAAGGAATGAAGAGACAGT<br>GGGAAGTGAAGGCTGTCCCTATCTACTTAGGCTCTGCGCAATCCTCGGGCTGAG |
| SEQ ID<br>NO:117 | Round 2<br>CD28D12-5 | ATGGGTACACAAATGAAGTGGGGATCACTACCACCAAGCGCCCATGCCTCTGGCTCTCTC<br>AGCTCTTGGTGCTCACTGGTCTTTTTTACTTCTGTTCAGGCATCACCCCAAAGAGTGTGAC<br>CAAAAGAGTGAAAGAAACAGTAATGCTATCCTGTGATTACAGCACATCCACTGAAGAAGTGA<br>ACAAGCCTTCGGATCTATTGGCAAAAGGATAGTAAAATGGTGCTGGCCATCCTGCCTGGAA<br>AAGTGCAGGTGTGGCCTGAGTACAAGAACCGCACCATCACTGACATGAACGATAACCCCCG<br>TATTGTGATCCTGGCTCTGCGCCTGTGCGACAGTGGCACCTACACCTGTGTTATTTCAGAAG<br>CCTGTTTTGAAAGGGGCTTATAAACTGGAGCACCTGGCTTCCGTGAGGTTAATGATCAGAG<br>CTGACTTCCCTGTCCCTAGCATAACTGACATTGGACATCCCCGCCCTAATGTGAAAAGGAT<br>AAGATGCTCCGCCTCTGGAGATTTTCCAGAGCCTCGCCTCGCCTGGATGGAAGATGGAGAA<br>GAACATAACGCCGTCAACACGACGGTTTGGACACGGAGCTCTACAGCGTCAGCAGTGAAC<br>TGGATTTCAATGTGACAAATAACCCACAGCATCGTGTGTCTCATCAAATACGGGGAGCTGTC<br>GGTGTACAGATCTTCCCTTGGAGCAAACCAAGCAGGAGCCTCCCATTGATCAGCTTCCA<br>TTCTGGGTGATTATCCAGTAAGTGGTGCTTTGGTGCTCACTGCGGTAGTTCTCTACTGCC<br>TGGCCTGCAGACATGTTGCGAGGTGGAAAAGAACAAGAAGGAATGAAGAGACAGTGGGAAC<br>TGAAAGGCTGTCCCTATCTACTTAGGCTCTGCGCAACCTCGGGCTGA         |
| SEQ ID<br>NO:118 | Round 2<br>CD28E10-6 | ATGGGTACACAAATGAAGTGGGGATCACTACCACCAAGCGCCCATGCCTCTGGCTCTCTC<br>AGCTCTTGGTGCTCACTGGTCTTTTTTACTTCTGTTCAGGCATCACCCCAAAGAGTGTGAC<br>CAAAAGAGTGAAAGAAACAGTAATGCTATCCTGTGATTACAACACATCCACTGAAGAAGTGA<br>ACAAGCCTTCGGATCTATTGGCAAAAGGATAGTAAAATGGTGCTGGCCATCCTGCCTGGAA<br>AAGTGCAGGTGTGGCCTGAGTACAAGAACCGCACCATCACTGACATGAACGATAACCCCCG<br>TATTGTGATCCTGGCTCTGCGCCTGTGCGACAGTGGCACCTACACCTGTGTTATTTCAGAAG<br>CCTGTTTTGAAAGGGGCTTATAAACTGGAGCACCTGGCTTCCGTGAGGTTAATGATCAGAG<br>CTGACTTCCCTGTCCCTAGCATAACTGACATTGGACATCCCCGCCCTAATGTGAAAAGGAT<br>AAGATGCTCCGCCTCTGGAGATTTTCCAGAGCCTCGCCTCGCCTGGATGGAAGATGGAGAA<br>GAACATAACGCCGTCAACACGACGGTTTGGACACGGAGCTCTACAGCGTCAGCAGTGAAC<br>TGGATTTCAATGTGACAAATAACCCACAGCATCGTGTGTCTCATCAAATACGGGGAGCTGTC<br>GGTGTACAGATCTTCCCTTGGAGCAAACCAAGCAGGAGCCTCCCATTGATCAGCTTCCA<br>TTCTGGGTGATTATCCAGTAAGTGGTGCTTTGGTGCTCACTGCGGTAGTTCTCTACTGCC<br>TGGCCTGCAGACATGTTGCGAGGTGGAAAAGAACAAGAAGGAATGAAGAGACAGTGGGAAC<br>TGAAAGGCTGTCCCTATCTACTTAGGCTCTGCGCAACCTCGGGCTGA         |



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|                  |                     | AAGATGCTCCGCCTCTGGAGATTTTCCAGAGCCTCGCCTCGCCTGGATGGAAGATGGGGAA<br>GAACTAAACGCCGTCAACACGACGGTTGACCAGGATTTGGACACGGAGCTCTACAGCGTCA<br>GCAGTGAACCTGGATTTCAATGTGACAAATAACCACAGCATCGTGTGTCTCATCAAATACGG<br>GGAGCTGTCCGGTGTACAGATCTTCCCTTGGAGCAAACCCAAGCAGGAGCCTCCCATTTGAT<br>CAGCTTCCATTCTGGGTCAATTATCCCAGTAAGCGGTGCTTTGGTGCTCACTGCGGTAGTTC<br>TCTACTGCCTGGCCTGCAGACATGTTGCGAGGTGGAAGAACAAGAAGGAATGAAGAGAC<br>AGTGGGAACCTGAAAGGCTGTCCCTATCTACTTAGGCTCTGCGCAATCCTCGGGCTAG  |
| SEQ ID<br>NO:123 | Round 2<br>CD28G2-8 | ATGGGTCACACAATGAAGTGGGGATCACTACCACCCAAGCGCCCATGCCTCTGGCTCTCTC<br>AGCTCTTGGTGCTCACTGGTCTTTTTTACTTCTGTTCAGGCATCACCCCAAAGAGTGTGAC<br>CAAAAGAGTGAAAGAAACAGTAATGCTATCCTGTGATTACAACACATCCACTGAAGAACTG<br>ACAAGCCTTCGGATCTATTGGCAAAAGGATAGTAAAATGGTGCTGGCCATCCTGCCTGGAA<br>AAGTGCAGGTGTGGCCTGAGTACAAGAACCGCACCATCACTGACATGAACGATAACCCCCG<br>TATTGTGATCCTGGCTCTGCGCCTGTGCGACAGTGGCACCTACACCTGTGTTATTTCAGAAG<br>CCTGTTTTGAAAGGGGCTTATAAAGTGGAGCACCTGGCTTCCGTGAGGTTAATGATCAGAG<br>CTGACTTCCCTGTCCCTAGCATAAATGATCTTGGAAATCCATCTCCTAATATCAGAAGGCT<br>AATTTGCTCAACCTCTGGAGGTTTTTCCAAGGCCCCACCTCTACTGGTTGGAATGGAGAA<br>GAATTAATGCTACCAACACAACAGTTTTCCAAGATCCTGGAAGTGAAGTCTACATGATTA<br>GCAGTGAACCTGGATTTCAATGTGACAAATAACCACAGCATCGTGTGTCTCATCAAATACGG<br>GGAGCTGTCCGGTGTACAGATCTTCCCTTGGAGCAAACCCAAGCAGGAGCCTCCCATTTGAT<br>CAGCTTCCATTCTGGGTCAATTATCCCAGTAAGTGGTGCTTTGGTGCTCACTGCGGTAGTTC<br>TCTACTGCCTGGCCTGCAGACATGTTGCGAGGTGGAAGAACAAGAAGGAATGAAGAGAC<br>AGTGGGAACCTGAAAGGCTGTCCCTATCTACTTAGGCTCCGCGCAATCCTCGGGCTGA     |
| SEQ ID<br>NO:124 | Round 2<br>CD28G1-5 | ATGGGTCACACAATGAAGTGGGGATCACTACCACCCAAGCGCCCATGCCTCTGGCTCTCTC<br>AGCTCTTGGTGCTCACTGGTCTTTTTTACTTCTGTTCAGGCATCACCCCAAAGAGTGTGAC<br>CAAAAGAGTGAAAGAAACAGTAATGCTATCCTGTGATTACAGCACATCCACTGAAGAACTG<br>ACAAGCCTTCGGATCTATTGGCAAAAGGATAGTAAAATGGTGCTGGCCATCCTGCCTGGAA<br>AAGTGCAGGTGTGGCCTGAGTACAAAACCGCACCTTCCCCGACATCATTAACAACCTCTC<br>CCTTATGATCCTGGCACTGCGCCTGTGCGACAAGGGCACCTACACCTGCGTGTTTCAGAAG<br>AATGAGAACGGGTCTTTTCAGACGGGAGCACCTGACCTCCGTGACACTGTCCATCAGAGCTG<br>ACTTCCCTGTCTCTAGCATAACTGACATTGGACATCCCGCCCTAATGTGAAAAGGATAAG<br>ATGCTCCGCCTCTGGAGGTTTTTCCAGAGCCTCGCCTCGCCTGGATGGAAGATGGAGAAGAA<br>CTAAACGCCGTCAACACGACGGTTGACCAGGATTTGGACACGGAGCTCTACAGCGTCAGCA<br>GTGAAGTGGATTTCAATGTGACAAATAACCACAGCATTGTGTGTCTCATCAAATACGGGA<br>GTGTGCGGTGTACAGATCTTCCCTTGGAGCAAACCCAAGCAGGAGCCTCCCATTGATCAG<br>CTTCCATTCTGGGTCAATTATCCCAGTAAGTGGTGCTTTGGTGCTCACTGCGGTAGTTCTCT<br>ACTGCCTGGCCTGCAGACATGTTGCGAGGTGGAAGAACAAGAAGGAATGAAGAGACAGT<br>GGGAACCTGAAAGGCTGTCCCTATCTACTTAGGCTCTGCGCAATCCTCGGGCTGA           |
| SEQ ID<br>NO:125 | Round 2<br>CD28G1-9 | ATGGGTCACACAATGAAGTGGGGATCACTACCACCCAAGCGCCCATGCCTCTGGCTCTCTC<br>AGCTCTTGGTGCTCACTGGTCTTTTTTACTTCTGTTCAGGCATCACCCCAAAGAGTGTGAC<br>CAAAAGAGTGAAAGAAACAGTAATGCTATCCTGTGATTACAACACATCCACTGAAGAACTG<br>ACAAGCCTTCGGATCTATTGGCAAAAGGATAGTAAAATGGTGCTGGCCATCCTGCCTGGAA<br>AAGTGCAGGTGTGGCCTGAGTACAAGAACCGCACCATCACTGACATGAACGATAACCCCCG<br>TATTGTGATCCTGGCTCTGCGCCTGTGCGACAGTGGCACCTACACCTGTGTTATTTCAGAAG<br>CCTGTTTTGAAAGGGGCTTATAAAGTGGAGCACCTGACTTCCGTGAGGTTAATGATCAGAG<br>CTGACTTCCCTGTCCCTAGCATAACTGACATTGGACATCCCGCCCTAATGTGAAAAGGAT<br>AAGATGCTCCGCCTCTGGAGGTTTTTCCAGAGCCTCGCCTCGCCTGGATGGAAGATGGAGAA<br>GAACTAAACGCCGTCAACACGACGGTTGACCAGGATTTGGACACGGAGCTCTACAGCGTCA<br>GCAGTGAACCTGGATTTCAATGTGACAAATAACCACAGCATCGTGTGTCTCATCAAATACGG<br>GGAGCTGTCCGGTGTACAGATCTTCCCTTGGAGCAAACCCAAGCAGGAGCCTCCCATTGAT<br>CAGCTTCCATTCTGGGTCAATTATCCCAGTAAGTGGTGCTTTGGTGCTCACTGCGGTAGTTC<br>TCTACTGCCTGGCCTGCAGACATGTTGCGAGGTGGAAGAACAAGAAGGAATGAAGAGACAGT<br>ACTGGGAACCTGAAAGGCTGTCCCTATCTACTTAGGCTCTGCGCAATCCTCGGGCTGA |
| SEQ ID<br>NO:126 | Round 2<br>CD28H4-3 | ATGGGTCACACAATGAAGTGGGGATCACTACCACCCAAGCGCCCATGCCTCTGGCTCTCTC<br>AGCTCTTGGTGCTCACTGATCTTTTTTACTTCTGTTCAGGCATCACCCCAAAGAGTGTGAC<br>CAAAAGAGTGAAAGAAACAGTAATGCTATCCTGTGATTACAACACATCCACTGAAGAACTG<br>ACAAGCCTTCGGATCTATTGGCAAAAGGATAGTAAAATGGTGCTGGCCATCCTGCCTGGAA<br>AAGTGCAGGTGTGGCCTGAGTACAAGAACCGCACCATCACTGACATGAACGATAACCCCCG<br>TATTGTGATCCTGGCTCTGCGCCTGTGCGACAGTGGCACCTACACCTGTGTTATTTCAGAAG<br>CCTGTTTTGAAAGGGGCTTATAAAGTGGAGCACCTGACTTCCGTGAGGTTAATGATCAGAG<br>CTGACTTCCCTGTCCCTAGCATAACTGACATTGGACATCCCGCCCTAATGTGAAAAGGAT<br>AAGATGCTCCGCCTCTGGAGGTTTTTCCAGAGCCTCGCCTCGCCTGGATGGAAGATGGAGAA<br>GAACTAAACGCCGTCAACACGACGGTTGACCAGGATTTGGACACGGAGCTCTACAGCGTCA<br>GCAGTGAACCTGGATTTCAATGTGACAAATAACCACAGCATCGTGTGTCTCATCAAATACGG<br>GGAGCTGTCCGGTGTACAGATCTTCCCTTGGAGCAAACCCAAGCAGGAGCCTCCCATTGAT<br>CAGCTTCCATTCTGGGTCAATTATCCCAGTAAGTGGTGCTTTGGTGCTCACTGCGGTAGTTC<br>TCTACTGCCTGGCCTGCAGACATGTTGCGAGGTGGAAGAACAAGAAGGAATGAAGAGACAGT<br>ACTGGGAACCTGAAAGGCTGTCCCTATCTACTTAGGCTCTGCGCAATCCTCGGGCTGA |



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|                  |                      | CTGACTTCCCTGTCCCTACCATAAATGATCTTGGAAATCCATCTCCTAATATCAGAAGGCT<br>AATTTGCTCAACCTCTGGAGGTTTTCCAAGGCCCCACCTCTACTGGTTGGAAAATGGAGAA<br>GAATTAAATGCTACCAACACAACAGTTTTCCCAAGATCCTGGAAGTCTACATGATTA<br>GCAGTGAAGTGGATTTCAATGTGACAAATAACCACAGCATCGTGTGTCTCATCAAATACGG<br>GGAGCTGTGGGTGTACAGATCTTCCCTTGGAGCAAACCCAAGCAGGAGCCTCCCATTGAT<br>CAGCTTCCATTCTGGGTCTATTATCCCAGTAAGTGGTGTCTTGGTGTCTACTGCGGTAGTTC<br>TCTACTGCCTGGCCTGCAGACATGTTGCAAGGTGGAAAAGAACAAGAAGGAATGAAGAGAC<br>AGTGGGAAGTGAAGGCTGTCCCTATCTACTTAGGCTCTGCGCAATCCTCGGGCTGA   |
| SEQ ID<br>NO:127 | Round 2<br>CD28H11-3 | ATGGGTCACACAATGAAGTGGGGATCACTACCACCCAAGCGCCCATGCCTCTGGCTCTCTC<br>AGCTCTTGGTGCTCACTGGTCTTTTTTACTTCTGTTCAGGCATCACCCCAAAGAGTGTGAC<br>CAAAAGAGTGAAAGAAACAGTAATGCTATCCTGTGATTACAACACATCCACTGAAGAACTG<br>ACAAGCCTTCGGATCTATTGGCAAAGGATAGTAAAATGGTGTCTGGCCATCCTGGCTGGAA<br>AAGTGCAGGTGTGGCCTGAGTACAAGAACCGCACCATCACTGACATGAACGATAACCCCCG<br>TATTGTGATCCTGGCTCTGCGCCTGTGCGACAGTGGCACCTACACCTGTGTTATTTCAGAAG<br>CCTGTTTTTGAAGGGGCTTATAAACTGGAGCACCTGGCTTCCGTGAGGTTAATGATCAGAG<br>CTGACTTCCCTGTCCCTACCATAAATGATCTTGGAAATCCATCTCCTAATATCAGAAGGCT<br>AATTTGCTCAACCTCTGGAGGTTTTCCAAGGCCCCACCTCTACTGGTTGGAAAATGGAGAA<br>GAATTAAATGCTACCAACACAACACTGTCCCAAGATCCTGAAACCAAGCTCTACATGATTA<br>GCAGTGAAGTGGATTTCAATGTGACAAATAACCACAGCATCGTGTGTCTCATCAAATACGG<br>GGAGCTGTGGGTGTACAGATCTTCCCTTGGAGCAAACCCAAGCAGGAGCTCTCCATTGAT<br>CAGCTTCCATTCTGGGTCTATTATCCCAGTAAGTGGTGTCTTGGTGTCTACTGCGGAGTTC<br>TCTACTGCCCTGGCCTGCAGACATGTTGCGAGGTGGAAAAGAACAAGAAGGAATGAAGAGAC<br>AGTGGGAAGTGAAGGCTGTCCCTATCTACTTAGGCTCTGCGCAATCCTCGGGCTAG   |
| SEQ ID<br>NO:128 | Round 2<br>CD28H6-6  | ATGGGTCACACAATGAAGTGGGGATCACTACCACCCAAGCGCCCATGCCTCTGGCTCTCTC<br>AGCTCTTGGTGCTCACTGGTCTTTTTTACTTCTGTTCAGGCATCACCCCAAAGAGTGTGAC<br>CAAAAGAGTGAAAGAAACAGTAATGCTATCCTGTGATTACAGCACATCCACTGAAGAACTG<br>ACAAGCCTTCGGATCTATTGGCAAAGGATAGTAAAATGGTGTCTGGCCATCCTGCCTGGAA<br>AAGTGCAGGTGTGGCCTGAGTACAAGAACCGCACCATCACTGACATGAACGATAACCCCCG<br>TATTGTGATCCTGGCTCTGCGCCTGTGCGACAGTGGCACCTACACCTGTGTTATTTCAGAAG<br>CCTGTTTTTAAAGGGGCTTATAAACTGGAGCACCTGGCTTCCGTGAGGTTAATGATCAGAG<br>CTGACTTCCCTGTCCCTACCATAAATGATCTTGGAAATCCATCTCCTAATATCAGAAGGCT<br>AATTTGCTCAGGTTTTTCCAAGGCCCCACCTCTACTGGTTGGAAAATGGAGAAGAATTAAT<br>GCTACCAACACAACAGTTTTCCCAAGATCCTGGAAGTGAAGTCTACATGATTAGCAGTGAAC<br>TGGATTTCAATGTGACAAATAACCACAGCATCGTGTGTCTCATCAAATACGGGGAGCTGTC<br>GGTGTACAGATCTTCCCTTGGAGCAAACCCAAGCAGGAGCCTCCCATTGATCAGCTTCCA<br>TTCTGGGTCTATTATCCCAGTAAGTGGTGTCTTGGTGTCTACTGCGGTAGTTCCTACTGCC<br>TGGCCTGCAGACATGTTGCGAGGTGGAAAAGAACAAGAAGGAATGAAGAGACAGTGGGAAC<br>TGAAAGGCTGTCCCTATCTACTTAGGCTCTGCGCAATCCTCGGGCTGA           |
| SEQ ID<br>NO:129 | Round 2<br>CD28E2-4  | ATGGGTCACACAATGAAGTGGGGATCACTACCACCCAAGCGCCCATGCCTCTGGCTCTCTC<br>AGCTCTTGGTGCTCACTGGTCTTTTTTACTTCTGTTCAGGCATCACCCCAAAGAGTGTGAC<br>CAAAAGAGTGAAAGAAACAGTAATGCTATCCTGTGATTACAGCACATCCACTGAAGAACTG<br>ACAAGCCTTCGGATCTATTGGCAAAGGATAGTAAAATGGTGTCTGGCCATCCTGCCTGGAA<br>AAGTGCAGGTGTGGCCTGAGTACAAGAACCGCACCATCACTGACATGAACGATAACCCCCG<br>TATTGTGATCCTGGCACTGCGCCTGTGCGACAAGGGCACCTACACCTGTGTTATTTCAGAAG<br>CCTGTTTTTGAAGGGGCTTATAAACTGGAGCACCTGGCTTCCGTGAGGTTAATGATCAGAG<br>CTGACTTCCCTGTCCCTACCATAAATGATCTTGGAAATCCATCTCCTAATATCAGAAGGCT<br>AATTTGCTCAACCTCTGGAGGTTTTTCCAAGGCCCCACCTCTACTGGTTGGAAAATGGAGAA<br>GAATTAAATGCTACCAACACAACAGTTTTCCCAAGATCCTGGAAGTGAAGTCTACATGATTA<br>GCAGTGAAGTGGATTTCAATGTGACAAATAACCACAGCATCGTGTGTCTCATCAAATACGG<br>GGAGCTGTGGGTGTACAGATCTTCCCTTGGAGCAAACCCAAGCAGGAGCCTCCCATTGAT<br>CAGCTTCCATTCTGGGTCTATTATCCCAGTAAGTGGTGTCTTGGTGTCTACTGCGGTAGTTC<br>TCTACTGCCTGGCCTGCAGACATGTTGCGAGGTGGAAAAGAACAAGAAGGAATGAAGAGAC<br>AGTGGGAAGTGAAGGCTGTCCCTATCTACTTAGGCTCTGCGCAATCCTCGGGCTGA |
| SEQ ID<br>NO:130 | Round 2<br>CD28B4-5a | ATGGGTCACACAATGAAGTGGGGATCACTACCACCCAAGCGCCCATGCCTCTGGCTCTCTC<br>AGCTCTTGGTGCTCACTGGTCTTTTTTACTTCTGTTCAGGCATCACCCCAAAGAGTGTGAC<br>CAAAAGAGTGAAAGAAACAGTAATGCTATCCTGTGATTACAGCACATCCACTGAAGAACTG<br>ACAAGCCTTCGGATCTATTGGCAAAGGATAGTAAAATGGTGTCTGGCCATCCTGCCTGGAA<br>AAGTGCAGGTGTGGCCTGAGTACAAGAACCGCACCATCACTGACATGAACGATAACCCCCG<br>TATTGTGATCCTGGCACTGCGCCTGTGCGACAAGGGCACCTACACCTGTGTTATTTCAGAAG<br>CCTGTTTTTGAAGGGGCTTATAAACTGGAGCACCTGGCTTCCGTGAGGTTAATGATCAGAG<br>CTGACTTCCCTGTCCCTACCATAAATGATCTTGGAAATCCATCTCCTAATATCAGAAGGCT<br>AATTTGCTCAACCTCTGGAGGTTTTTCCAAGGCCCCACCTCTACTGGTTGGAAAATGGAGAA<br>GAATTAAATGCTACCAACACAACAGTTTTCCCAAGATCCTGGAAGTGAAGTCTACATGATTA<br>GCAGTGAAGTGGATTTCAATGTGACAAATAACCACAGCATCGTGTGTCTCATCAAATACGG<br>GGAGCTGTGGGTGTACAGATCTTCCCTTGGAGCAAACCCAAGCAGGAGCCTCCCATTGAT<br>CAGCTTCCATTCTGGGTCTATTATCCCAGTAAGTGGTGTCTTGGTGTCTACTGCGGTAGTTC<br>TCTACTGCCTGGCCTGCAGACATGTTGCGAGGTGGAAAAGAACAAGAAGGAATGAAGAGAC<br>AGTGGGAAGTGAAGGCTGTCCCTATCTACTTAGGCTCTGCGCAATCCTCGGGCTGA |



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|                  |                      | TATTGTGATCTGGCTCTGCGCCTGTGCGGACGAGGACACCTACACCTGCGTGGTTTCAGAAAG<br>AATGGAACCGGTCTTTTCAGACGGGAGCACCTGACCTCCGTGACACTGTCCATCAGAGCTG<br>ACTTCCCTGTCCCTAGCATAACTGACATTGGACATCCCGCCCCTAATGTGAAAAGGATAAG<br>ATGCTCCGCTCTGGAGGTTTTCCAGAGCCTCGCCTCGCCTGGATGGAAGATGGAGAAGAA<br>CTAAACGCCGTCAACACGACGGTTGACCAGGATTTGGACACGGAGCTCTACAGCGTCAGCA<br>GTGAACTGGATTTCAATGTGACAAATAACCACAGCATCGTGTGTCTCATCAAATACGGGGA<br>GCTGTGCGGTGTACAGATCTTCCCTTGGAGCAAACCAAGCAGGAGCCTCCCATTTGATCAG<br>CTTCCATTTCTGGGTCAATTATCCAGTAAGTGGTGCTTTTGGTGCTCACTGCGGTAGTTCTCT<br>ACTGCTTGGCCTGCAGACATGTTGCGAGGTGGAAAAGAACAAAGGAATGAAGAGACAGT<br>GGGAACGTGAAAGGCTGTCCCCTATCTACTTAGGCTCTGCGCAATCCTCGGGCTAG  |
| SEQ ID<br>NO:135 | Round 2<br>CD28E2-5* | ATGGGTCACACAATGAAGTGGGGATCACTACCACCCAAGCGCCCATGCCTCTGGCTCTCTC<br>AGCTCTTGGTGCTCACTGGTCTTTTTTACTTCTGTTCAGGCACCACCCCAAAGAGTGTGAC<br>CAAAAGAGTGAAAGAAACAGTAATGCTATCCTGTGATTACAACACATCCACTGAAGAACTG<br>ACAAGCCTTCGGATCTATTGGCAAAAGGATAGTAAAATGGTGCTGGCCATCCTGCCTGGAA<br>AAGTGCAGGTGTGGCCTGAGTACAAGAACCGCACCATCACTGACATGAACGATAACCCCCG<br>TATTGTGATCCTGGCTCTGCGCCCCGTGCGACAGTGGCACCTACACCTGTGTTATTTCAGAAG<br>CCTGTTTTGAAAGGGGCTTATAAACTGGAGCACCTGGCTTCCGTGAGGTTAATGATCAGAG<br>CTGACTTCCCTGTCCCTACCATAAATGATCTTGGAAATCCATCTCCTAATATCAGAAGGCT<br>AATTTGCTCAACCTCTGGAGGTTTTTCCAAGGCCCCACCTCTACTGGTTGGAAAATGGAGAA<br>GAATTAAATGCTACCAACACAACACTGTCCCAAGATCCTGAAACCAAGCTCTACATGATTA<br>GCAGTGAACCTGGATTTCAACATGACAAGCAATCACAGCTTCTTGTGTCTTGTCAAGTATGG<br>AGACTTAACAGTGTACAGACCTTCTACTGGCAAGAATCCAAACCAACCCCTTCTGCTAAT<br>CAGCACCTGACCTGGACCATTATTATCCAGTCTCAGCAATTTGGGATTTCTGTGATCATTG<br>CAGTTATACTAACATGCCTGACCTGCAGAAATGCTGCAATACGCAGACAGAGAAGGGAGAA<br>TGAAGTGGAATGCAAAGTTGCTCTCAGTCTCCATGA                       |
| SEQ ID<br>NO:136 | Round 2<br>CD28E5-2  | ATGGGTCACACAATGAAGTGGGGATCACTACCACCCAAGCGCCCATGCCTCTGGCTCTCTC<br>AGCTCTTGGTGCTCACTGGTCTTTTTTACTTCTGTTCAGGCATCACCCCAAAGAGTGTGAC<br>CAAAAGAGTGAAAGAAACAGTAATGCTATCCTGTGATTACAACACATCCACTGAAGAACTG<br>ACAAGCCTTCGGATCTATTGGCAAAAGGATAGTAAAATGGTGCTGGCCATCCTGCCTGGAA<br>AAGTGCAGGTGTGGCCTGAGTACAAGAACCGCACCATCACTGACATGAACGATAACCCCCG<br>TATTGTGATCCTGGCTCTGCGCCTGTGCGACAGTGGCACCTACACCTGTGTTATTTCAGAAG<br>CCTGATTTGAAAGGGGCTTATAAACTGGAGCACCTGGCTTCCGTGAGGTTAATGATCAGAG<br>CTGACTTCCCTGTCCCTACCATAAATGATCTTGGAAATCCATCTCCTAATATCAGAAGGCT<br>AATTTGCTCAACCTCTGGAGGTTTTTCCAAGGCCCCACCTCTACTGGTTGGAAAATGGAGAA<br>GAATTAAATGCTACCAACACAACACTGTCCCAAGATCCTGAAACCAAGCTCTACATGATTA<br>GCAGTGAACCTGGATTTCAATGTGACAAATAACCGCAGCATCGTGTGTCTCATCAAATACGG<br>GGAGCTGTGCGGTGTACAGATCTTCCCTTGGAGCAAACCCAAGCAGGAGCCTCCCATTTGAT<br>CAGCTTCCATTTCTGGGTCAATTATCCAGTAAGTGGTGCTTTGGTGCTCACTGCGGTAGTTC<br>TCTACTGCCTGGCCTGCAGACATGTTGCGAGGTGGAAAAGAACAAAGGAATGAAGAGAC<br>AGTGGGAACGTGAAAGGCTGTCCCTATCTACTTAGGCTCTGCGCAATCCTCGGGCTGA |
| SEQ ID<br>NO:137 | Round 2<br>CD28E8-6  | ATGGGTCACACAATGAAGTGGGGATCACTACCACCCAAGCGCCCATGCCTCTGGCTCTCTC<br>AGCTCTTGGTGCTCACTGGTCTTTTTTACTTCTGTTCAGGCATCACCCCAAAGAGTGTGAC<br>CAAAAGAGTGAAAGAAACAGTAATGCTATCCTGTGATTACAACACATCCACTGAAGAACTG<br>ACAAGCCTTCGGATCTATTGGCAAAAGGATAGTAAAATGGTGCTGGCCATCCTGCCTGGAA<br>AAGTGCAGGTGTGGCCTGAGTACAAGAACCGCACCATCACTGACATGAACGATAACCCCCG<br>TATTGTGATCCTGGCTCTGCGCCTGTGCGACAGTGGCACCTACACCTGTGTTATTTCAGAAG<br>CCTGTTTTGAAAGGGGCTTATAAACTGGAGCACCTGACTTCCGTGAGGTTAATGATCAGAG<br>CTGACTTCCCTGTCCCTACCATAAATGATCTTGGAAATCCATCTCCTAATATCAGAAGGCT<br>AATTTGCTCAACCTCTGGAGGTTTTTCCAAGGCCCCACCTCTACTGGTTGGAAAATGGAGAA<br>GAATTAAATGCTACCAACACAACAGTTTCCCAAGATCCTGAAACCAAGCTCTACATGATTA<br>GCAGTGAACCTGGATTTCAACACGACAAGCAATCACAGCTTCTTGTGTCTTGTCAAGTATGG<br>AGACTTAACAGTGTACAGACCTTCTACTGGCAAGAATCCAAACCAACCCCTTCTGCTAAT<br>CAGCACCTGACCTGGACCATTATTATCCAGTCTCAGCAATTTGGGATTTCTGTGATCATTG<br>CAGTTATACTAACATGCCTGACCTGCAGAAATGCTGCAATACGCAGACAGAGAAGGGAGAA<br>TGAAGTGGAATGCAAAGTTGCTCTCAGTCTCCATGA                        |
| SEQ ID<br>NO:138 | Round 2<br>CD28E9-6  | ATGGGTCACACAATGAAGTGGGGATCACTACCACCCAAGCGCCCATGCCTCTGGCTCTCTC<br>AGCTCTTGGTGCTCACTGGTCTTTTTTACTTCTGTTCAGGCATCACCCCAAAGAGTGTGAC<br>CAAAAGAGTGAAAGAAACAGTAATGCTATCCTGTGATTACAACACATCCACTGAAGAACTG<br>ACAAGCCTTCGGATCTATTGGCAAAAGGATAGTAAAATGGTGCTGGCCATCCTGCCTGGAA<br>AAGTGCAGGTGTGGCCTGAGTACAAGAACCGCACCATCACTGACATGAACGATAACCCCCG<br>TATTGTGATCCTGGCTCTGCGCCTGTGCGACAGTGGCACCTACACCTGTGTTATTTCAGAAG<br>CCTGTTTTGAAAGGGGCTTATAAACTGGAGCACCTGACTTCCGTGAGGTTAATGATCAGAG<br>CTGACTTCCCTGTCCCTACCATAAATGATCTTGGAAATCCATCTCCTAATATCAGAAGGCT<br>AATTTGCTCAACCTCTGGAGGTTTTTCCAAGGCCCCACCTCTACTGGTTGGAAAATGGAGAA<br>GAATTAAATGCTACCAACACAACAGTTTCCCAAGATCCTGAAACCAAGCTCTACATGATTA<br>GCAGTGAACCTGGATTTCAACACGACAAGCAATCACAGCTTCTTGTGTCTTGTCAAGTATGG<br>AGACTTAACAGTGTACAGACCTTCTACTGGCAAGAATCCAAACCAACCCCTTCTGCTAAT<br>CAGCACCTGACCTGGACCATTATTATCCAGTCTCAGCAATTTGGGATTTCTGTGATCATTG<br>CAGTTATACTAACATGCCTGACCTGCAGAAATGCTGCAATACGCAGACAGAGAAGGGAGAA<br>TGAAGTGGAATGCAAAGTTGCTCTCAGTCTCCATGA                        |

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|                  |                      | AAGTGCAGGTGTGGCCTGAGTACAAGAACCGCACCATCACTGACATGAACGATAACCCCCG<br>TATTGTGATCCTGGCTCTGCGCCTGTGCGACAAGGGCACCTACACCTGTGTTATTCAGAAG<br>CCTGATTGAAAGGGGCTTATAAACTGGAGCACCTGGCTTCCGTGAGGTTAATGATCAGAG<br>CTGACTTCCCTGTCCCTACCATAAATGATCTTGGAAATCCATCTCCTAATATCAGAAGGCT<br>AATTTGCTCAACCTCTGGAGGTTTCCAAGGCCCCACCTCTACTGGTTGGAAAATGGAGAA<br>GAATTAATGCTACCAACACAACAGTTTCCCAAGATCCTGGAATCCTGAGCTCTACATGATTA<br>GCAGTGAACCTGGATTTCATGTGACAAATAACCACAGCATCGTGTGTCTCATCAAAATACGG<br>GGAGCTGTGCGGTGTACAGATCTTCCCTTGGAGCAAACCCAAGCAGGAGCCTCCCATTTGAT<br>CAGCTTCCATTCTGGGTCAATTATCCAGTAAGTGGTGCTTTGGTGCTCACTGCGGTAGTTC<br>TCTACTGCCTGGCCTGCAGGCATGTTGCGAGGTGGAAAAGAACAAGAAGGAATGAAGAGAC<br>AGTGGGAACCTGAAAGGCTGTCCCCTATCTACTTAGGCTCTGCGCAATCCTCGGGCTGA  |
| SEQ ID<br>NO:139 | Round 2<br>CD28F3-1  | ATGGGTACACACAATGAAGTGGGGATCACTACCACCCAAGCGCCCATGCCTCTGGCTCTCTC<br>AGCTCTTGGTGCTCACTGGTCTTTTTTACTTCTGTTCAGGCATCACCCTAAAGAGTGTGAC<br>CAAAAGAGTGAAAGAAACAGTAATGCTATCCTGTGATTACAACACATCCACTGAAGAACTG<br>ACAAGCCTTCGGATCTATTGGCAAAAGGATAGTAAAATGGTGCTGGCCATCCTGCCTGGAA<br>AAGTGCAGGTGTGGCCTGAGTACAAGAACCGCACCATCACTGACATGAACGATAACCCCCG<br>TATTGTGATCCTGGCTCTGCGCCTGTGCGACAGTGGCACCTACACCTGTGTTATTCAGAAG<br>CCTGATTGAAAGGGGCTTATAAACTGGAGCACCTGACTTCCGTGAGGTTAATGATCAGAG<br>CTGACTTCCCTGTCCCTACCATAAATGATCTTGGAAATCCATCTCCTAATATCAGAAGGCT<br>AATTTGCTCAACCTCTGGAGGTTTCCAAGGCCCCACCTCTACTGGTTGGAAAATGGAAAA<br>GAATTAATGCTACCAACACAACACTGTCCCAAGATCCTGAAACCAAGCTCTACATGATTA<br>GCAGTGAACCTGGATTTCACATGACAAGCAATCACAGCTTCTTGTGTCTTGTCAAGTATGG<br>AGACTTAACAGTGTACAGACCTTCTACTGGCAAGAATCCAAACCAACCCCTTCTGCTTAAT<br>CAGCACCTGACCTGGACCATTATTATCCAGTCTCAGCATTGGGGATTCTGTGATCATTG<br>CAGTTATACTAACATGCCTGACCTGCAGAAATGCTGCAATACGCAGACAGAGAAGGGAGAA<br>TGAAGTGGAAATGCAAAGTTGCTCTCAGTCTCCATGA                           |
| SEQ ID<br>NO:140 | Round 2<br>CD28F3-5  | ATGGGTACACACAATGAAGTGGGGATCACTACCACCCAAGCGCCCATGCCTCTGGCTCTCTC<br>AGCTCTTGGTGCTCACTGGTCTTTTTTACTTCTGTTCAGGCATCACCCTAAAGAGTGTGAC<br>CAAAAGAGTGAAAGAAACAGTAATGCTATCCTGTGATTACAACACATCCACTGAAGAACTG<br>ACAAGCCTTCGGATCTATTGGCAAAAGGATAGTAAAATGGTGCTGGCCATCCTGCCTGGAA<br>AAGTGCAGGTGTGGCCTGAGTACAAGAACCGCACCATCACTGACATGAACGATAACCCCCG<br>TATTGTGATCCTGGCTCTGCGCCTGTGCGACAGTGGCACCTACACCTGCGTGGTTCAGAAG<br>AATGAGAACGGGTCTTTCAGACGGGAGCACCTGACCTCCGTGACACTGTCCATCAGAGCTG<br>ACTTCCCTGTCCCTAGCATAACTGACATTGGACATCCCGCCCCCTAATGTGAAAAGGATAAG<br>ATGCTCCGCCTCTGGAGGTTTTCCAGAGCCTCGCCTCGCCTGGATGGAAGATGGAGAAGAA<br>CTAAACGCCGTCAACACGACGGTTGACCAGGATTTGGACACGGAGCTCTACAGCGTCAGCA<br>GTGAACTGGATTTCAATGTGACAAATAACCACAGCATCGTGTGTCTCATCAAAATACGGGGA<br>GCTGTGCGGTGTACAGATCTTCCCTTGGAGCAAACCCAAGCAGGAGCCTCCCATTTGATCAG<br>CTTCCATTCTGGGTCAATTATCCAGTAAGTGGTGCTTTGGTGCTCACTGCGGTGATTTCTCT<br>ACTGCTTGCCTGCAGACATGTTGCGAGGTGGAAAAGAACAAGAAGGAATGAAGAGCAGT<br>GGGAACTGAAAGGCTGTCCCCTATCTACTTAGGCTCTGCGCAATCCTCGGGCTGAG |
| SEQ ID<br>NO:141 | Round 2<br>CD28F3-6  | ATGGGTACACACAATGAAGTGGGGATCACTACCACCCAAGCGCCCATGCCTCCGGCTCTCTC<br>AGCTCTTGGTGCTCACTGGTCTTTTTTACTTCTGTTCAGGCATCACCCTAAAGAGTGTGAC<br>CAAAAGAGTGAAAGAAACAGTAATGCTATCCTGTGATTACAGCACATCCACTGAAGAACTG<br>ACAAGCCTTCGGATCTATTGGCAAAAGGATAGTAAAATGGTGCTGGCCATCCTGCCTGGAA<br>AAGTGCAGGTGTGGCCTGAGTACAAGAACCGCACCATCACTGACATGAACGATAACCCCCG<br>CCTGATTGAAAGGGGCTTATAAACTGGAGCACCTGACTTCCGTGAGGTTAATGATCAGAG<br>CTGACTTCCCTGTCCCTACCATAAATGATCTTGGAAATCCATCTCCTAATATCAGAAGGCT<br>AATTTGCTCAACCTCTGGAGGTTTCCAAGGCCCCACCTCTACTGGTTGGAAAATGGAGAA<br>GAATTAATGCTACCAACACAACACTGTCCCAAGATCCTGAAACCAAGCTCTACATGATTA<br>GCAGTGAACCTGGATTTCATGTGACAAATAACCACAGCATCGTGTGTCTCATCAAAATACGG<br>GGAGCTGTGCGGTGTACAGATCTTCCCTTGGAGCAAACCCAAGCAGGAGCCTCCCATTTGAT<br>CAGCTTCCATTCTGGGTCAATTATCCAGTAAGTGGTGCTTTGGTGCTCACTGCGGTAGTTC<br>TCTACTGCCTGGCCTGCAGACATGTTGCGAGGTGGAAAAGAACAAGAAGGAATGAAGAGAC<br>AGTGGGAACCTGAAAGGCTGTCCCCTATCTACTTAGGCTCTGCGCAATCCTCGGGCTGA  |
| SEQ ID<br>NO:142 | Round 2<br>CD28F11-8 | ATGGGTACACACAATGAAGTGGGGATCACTACCACCCAAGCGCCCATGCCTCTGGCTCTCTC<br>AGCTCTTGGTGCTCACTGGTCTTTTTTACTTCTGTTCAGGCATCACCCTAAAGAGTGTGAC<br>CAAAAGAGTGAAAGAAACAGTAATGCTATCCTGTGATTACAACACATCCACTGAAGAACTG<br>ACAAGCCTTCGGATCTATTGGCAAAAGGATAGTAAAATGGTGCTGGCCATCCTGCCTGGAA<br>AAGTGCAGGTGTGGCCTGAGTACAAGAACCGCACCATCACTGACATGAACGATAACCCCCG<br>CCTGATTGAAAGGGGCTTATAAACTGGAGCACCTGACTTCCGTGAGGTTAATGATCAGAG<br>CTGACTTCCCTGTCCCTACCATAAATGATCTTGGAAATCCATCTCCTAATATCAGAAGGCT<br>AATTTGCTCAACCTCTGGAGGTTTCCAAGGCCCCACCTCTACTGGTTGGAAAATGGAGAA<br>GAATTAATGCTACCAACACAACACTGTCCCAAGATCCTGAAACCAAGCTCTACATGATTA<br>GCAGTGAACCTGGATTTCATGTGACAAATAACCACAGCATCGTGTGTCTCATCAAAATACGG<br>GGAGCTGTGCGGTGTACAGATCTTCCCTTGGAGCAAACCCAAGCAGGAGCCTCCCATTTGAT<br>CAGCTTCCATTCTGGGTCAATTATCCAGTAAGTGGTGCTTTGGTGCTCACTGCGGTAGTTC<br>TCTACTGCCTGGCCTGCAGACATGTTGCGAGGTGGAAAAGAACAAGAAGGAATGAAGAGAC<br>AGTGGGAACCTGAAAGGCTGTCCCCTATCTACTTAGGCTCTGCGCAATCCTCGGGCTGA  |

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|                  |                               | ACAAGCCTTCGGATCTATTGGCAAAGGATAGTAAAAATGGTGCTGGCCATCCTGCCTGGAA<br>AAGTGCAGGTGTGGCCTGAGTACAAGAACCACCATCACTGACATGAACGATAACCCCCG<br>TATTGTGATCCTGGCTCTGCGCCTGTCCGACAGTGGCACCTACACCTGTGTTATTCAGAAG<br>CCTGTTTTGAAAGGGGCTTATAAACTGGAGCACCTGACTTCCGTGAGGTAAATGATCAGAG<br>CTGACTTCCCTGTCCCTACCATAAATGATCTTGGAAATCCATCTCCTAATATCAGAAGGCT<br>AATTGTGCTCAACCTCTGGAGGTTTTCCAAGGCCCCACCTCTACTGGTTGGAAAATGGAGAA<br>GAATTAAATGCTACCAACACAACACTGTCCCAAGATCCTGAAACCAAGCTCTACATGATTA<br>GCAGTGAACCTGGATTTCACATGACAAGCAATTTGTGTCTTGTCAAGTATGGAGACTTAAC<br>AGTGTCACAGACCTTCTACTGGCAAGAATCCAAACCAACCCCTTCTGTCTAATCAGCACCTG<br>ACCTGGACCATTATTATCCCAGTCTCAGCATTGTTGGGATTTCTGTGATCATTGCAGTTATAC<br>TAACATGCCTGACCTGCAGAAATGCTGCAATACGCAGACAGAGAAGGGAGAATGAAGTGGA<br>AATGCAAAGTTGCTCTCAGTCTCCATGA   |
| SEQ ID<br>NO:143 | Round 2<br>CTLA4BP<br>5x9-d10 | ATGAGCCACACACGAGGAGGGAACATCACCATCCAAGTGTCCGTACCTCAAGTTCTTTTC<br>AGTTCTTGGTGCTGGCTAGTCTTTCTCATTTCTGTTTCAGGTGTTATCCACGTGACTAAGGA<br>AGTGAAAGAAGTGGCAACGCTGTCTGTGGTCTCAATGTTTCTGTTGAAGAGCTGGCACAA<br>ACTCGCATCTACTGGCAAAAGGGGAAGAAAATGGTGCTGACTATGATGTCTGGGGACATGA<br>ATATATGGCCCGAGTACAAGAACCAGGACCATCTTTGATATCACAATAACCTCTCCATTGT<br>GATTCTGGCTCTGCGCCCATCTGACGAGGGGCACATACGAGTGTGTTGTTCTGGAGTATGAA<br>AAAGATGCTTTCAAGCGGAGAACACCTGGCTGAAGTGATGTTATCCGTCAAAGCTGACTTCC<br>CTACACCTAGTATATCTGACTTTGAAATTCCACCTTCTAATATTAGAAGGATAAATTTGCTC<br>AACCTCCGGAGGTTTTCTTGAGCCTCACCTCTCTGGCTGGAAAATGGAGAAGAATTAAT<br>GCCATCAACACAACAGCTTTCCAAGATCCTGGAAGTGTGCTGAGCTCTATACTGTTAGCAGCAAAC<br>TGGATTTCAATATGACAACCAACACAGCTTCATGTGTCTCATCAAGTATGGACATTTAAG<br>AGTGAATCAGACCTTCAACTGGAATACACCCAAGCAAGAGCATTTTCTGATAACCTGCTC<br>CCATCCTGGGCCATTACCTTAATCTCAGTAAATGGAATTTTTGTGATATGCTGCCTGACCC<br>ACTGTTTTGCCCAAGATGCAGAGAGAGAAGGAGGAATGAGAGATTGAGAAGGGAAAGTGC<br>ACGCCCTGTATGA |
| SEQ ID<br>NO:144 | Round 2<br>CTLA4BP<br>5x6-f6  | ATGGGCTACACACGAGGAGGGAACATCACCATCCAAGTGTCCGTACCTCAAGTTCTTTTC<br>AGCTCTTGGTGCTGGCTAGTCTTTCTCATTTCTGTTTCAGGTGTTATCCACGTGACCAAGGA<br>AGTGAAAGAAGTGGCAACGCTGTCTGTGGTCACAATGTTTCTGTTGAAGAGCTGGCACAA<br>ACTCCCATCTACTGGCAAAAGGAGAAGAAAATGGTGCTGACTATGATGTCTGGGGACATGA<br>ATATATGGCCCGAGTACAAGAACCAGGACCATCTTTGATATCACAATAACCTCTCCATTGT<br>GATTCTGGCTCTGCGCCCATCTGACGAGGGGCACATACGAGTGTGTTGTTCTGAAGTATGAA<br>AAAGACGCTTTCAAGCGGAGAACACCTGGCTGAAGTGATGTTATCCGTCAAAGCTGACTTCC<br>CTACACCTAGTATAACTGACTTTGAAATTCCACCTTCTAATATTAGAAGGATAAATTTGCTC<br>AACCTCCGGAGGTTTTCTTGAGCCTCACCTCTCTGGCTGGAAAATGGAGAAGAATTAAT<br>GCCATCAACACAACAGTTTCCAAGATCCTGAAACTGAGCTCTATACTGTTAGCAGCAAAC<br>TGGATTTCAATATGACAACCAATCGCAGTTTTGTGTGTCTCATCAAGTATGGACATTTAAG<br>AGTGAATCAGACCTTCAACTGGAATACACCCAAGCAAGAGCATTTTCTGATAACCTGCTC<br>CCATCCTGGGCCATTACCTTAATCTCAGCAAATGGAATTTTTGTGATATGCTGCCTGACCT<br>ACCGCTTTGCCCAAGATGCAGAGAGAGAAGGAGGAATGAGAGGCTGAGAAGGGAAAGTGT<br>ATGCCCTGTATGAG     |
| SEQ ID<br>NO:145 | Round 2<br>CTLA4BP<br>5c5-h12 | ATGGGCTACACACGAGGAGGGAATATCACCATCCAAGTGTCCATACCTCAAGTTCTTTTC<br>AGCTCTTGGTGCTGGCTAGTCTTTCCCACTTCTGTTTCAGGTGTTATCCACGTGACCAAGAA<br>AGTGAAAGAAGTGGCAACGCTGTCTGTGGTCACAATGTTTCTGTTGAAGAGCTGGCACAA<br>ACTCGCATCCACTGGCAAAAGGAGAAGAAAATGGTGCTGACTATGATGTCTGGGGACATGA<br>ATATATGGCCCGAGTACAAGAACCAGGACCATCTTTGATATCACAATAACCTCTCCATTGT<br>GATTCTGGCTCTGCGCCCATCTGACGAGGGGCACATACGAATGTGTTGTTCTGAAGTATGAA<br>AAAGATGCTTTCAAGCGGGAACACCTGGCTGAAGTGATGTTATCCGTCAAAGCTGACTTCC<br>CTACACCTAGTATATCTGACTTTGAAATTCCACCTTCTAATATTAGAAGGATAAATTTGCTC<br>AACCTCTGGAGGTTTTCCAGAGCCTCACCTCTCTGGCTGGAAAATGGAGAAGAATTAAT<br>GCCATCAACACAACAGTTTCCAAGATCCTGGAAGTGTGCTGAGCTCTATACTGTTAGCAGCAAAC<br>TGGATTTCAATATGACAACCGATCGCAGTTTTGTGTGTCTCATCAAGTATGGACATTTAAG<br>AGTGAATCAGACCTTCAACTGGAATACACCCAAGCAAGAGCATTTTCTGATAACCTGCTC<br>CCATCCTGGGCCATTACCTTAATCTCAGTAAATGGAATTTTTGTGATATGCTGCCTGACCT<br>ACTGCTTTGCCCAAGATGCAGAGAGAGAAGGAGGAATGGGAGATTGAGAAGGGAAAGTGT<br>ACGCCCTGTATGA  |
| SEQ ID<br>NO:146 | Round 2<br>CTLA4BP            | ATGAGCCACACACAGAGGAGGGAATATCACCATCCAAGTGTCCATACCTCAATTTCTTTTC<br>AGCTCTTGGTGCTGGCTAGTCTTTCTCATTTCTGTTTCAGGTGTTATCCACGTGACCAAGGA   |



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|                  | 5x5-c10                      | AGTGAAAGAAGTGGCAACACTGTCTGTGGTCACAATGTTTCTGTTGAAGAGCTGGCACA<br>ACTCGCATCTACTGGCAAAAGGAGAAGAAATGGTGTGCTGACTATGATGTCTGGGGACATGA<br>ATATATGGCCCGAGTACAAGAACCGGACCATCTTTGATATCACTAATAACCTCTCCATTGT<br>GATTCTGGCTCTGCGCCCATCTGACGAGGGCACATACGAGTGTGTTGTTCTGGAGTATGAA<br>AAAGACGCTTTCAAGCGGGAGCACCTAGCTGAAGTGACGTTATCAGTCAAAGCTGACTTCC<br>CTACACCTAGTATAACTGACTTTGAAATTTCCACCTTCTAACATTAGAAGGATAATTTGCTC<br>AACCTCTGGAGGTTTTCCAGAGCCCCACCTCTTCTGGCTGGAAAATGGAGAAGAATTAAT<br>GCCATCAGCACAAACAGTTTTCCCAAGATCCTGAACTGAGCTCTATGCTGTCAGCAGCAAAC<br>TGGATTTCAATATGACAACCAACCACAGCTTCATGTGTCTCATCAAGTATGGACATTTAAG<br>AGTGAATCAGACCTTCAACTGGAATACAACCAAGCAAGAGCATTTTCTGATAACCTGCTC<br>CCATCCTGGGCCATTACCTTAATCTCAGTAAATGGAATTTTTGTGATATGCTGCCTGACCT<br>ACTGCTTTGCCCCAAGATGCAGAGAGAGGAGAAGGAATGAGAGATTGAGAAGGGAAAGTGT<br>ACACCTGTATGAG   |
| SEQ ID<br>NO:147 | Round 2<br>CTLA4BP<br>5x3-e8 | ATGGGCCACACACGGAGGCAGGGAACATCACCATCCAAGTGTCCATACCTCAAGTTCTTTT<br>AGCTCTTGGTGTCTGGCTGGTCTTTCTCATCTCTGTTTCAAGTGTATCCACGTGACCAAGGA<br>AGTGAAAGAAGTGGCAACACTGTCTGTGGTCACAATGTTTCTGTTGAAGAGCTGGCACA<br>ACTCGCATCTACTGGCAAAAGGAGAAGAAATGGTGTGCTGACTATGATGTCTGGGGACATGA<br>ATATATGGCCCGAGTACAAGAACCGGACCATCTTTGATATCACTAATAACCTCTCCATTGT<br>GATTCTGGCTCTGCGCCCATCTGACGAGGGCACATACGAGTGTGTTGTTCTGGAGTATGAA<br>AAAGACGCTTTCAAGCGGGAACACCTAGCTGAAGTGACGTTATCAGTCAAAGCTGACTTCC<br>CTACACCTAGTATATCTGACTTTGAAATTTCCGACTTCTAATATTAGAAGGATAATTTGCTC<br>AACCTCTGGAGGTTTTCCAGAGCCTCACCTCTTCTGGCTGGAAAATGGAGAAGAATTAAT<br>GCCATCAACACAACAGTTTTCCCAAGATCCTGAACTGAGCTCTATACTGTTAGCAGCAAAC<br>TGGATTTCAATATGACAGCCAATCACAGTTTTGTGTGTCTCATCAAGTATGGACATTTAAG<br>AGTGAATCAGACCTTCAACTGGAATACACCAAGCAAGAGCATTTTCTGATAACCTGCTC<br>CCATCCTGGGCCATTACCTTAATCTCAGTAAATGGAATTTTTGTGATATGCTGCCTGACCT<br>ACTGCTTTGCCCCAGGATGCAGAGAGAGAAGGAGGAATGAGAGATTGAGAAGGGAAAGTGT<br>ATGCCCTGTATAG  |
| SEQ ID<br>NO:148 | Round 2<br>CTLA4BP<br>5x3-c4 | ATGAGCCACATACGGAGGCAGGGAATATCACCATCCAAGTGTCCATACCTCAATTTCTTTT<br>AGCTCTTGGTGTCTGGCTTGTCTTTCTCATTTCTGTTTCAAGTGTATCCACGTGACCAAGGA<br>AGTGAAAGAAGTGGCAACACTGTCTGTGGTCACAATGTTTCTGTTGAAGAGCTGGCACA<br>ACTCGCATCTACTGGCAAAAGGAGAAGAAATGGTGTGCTGACTATGATGTCTGGGGACATGA<br>ATATATGGCCCGAGTACAAGAACCGGACCATCTTTGATATCACTAATAACCTCTCCATTGT<br>GATTCTGGCTCTGCGCCCATCCGACGAGGGCACATACGAGTGTGTTGTTCTGAAGTATGAA<br>AAAGACGCTTTCAAGCGGGAACACCTGGCTGAAGTGACGTTATCAGTCAAAGCTGACTTCC<br>CTACACCTAGTATATCTGACTTTGAAATTTCCACCTTCTAACATTAGAAGGATAATTTGCTC<br>AACCTCTGGAGGTTTTCCAGAGCCTCGCCTCGCCTGGATGGAAGATGGAGAAGAACTAAAT<br>GCCATCAACACAACAGCTTTCCCAAGATCCTGAACTGAGCTCTATACTGTTAGCAGCAAAC<br>TGGATTTCAATATGACAACCAATCGCAGTTTTGTGTGTCTCATCAAGTATGGACATTTAAG<br>AGTGAATCAGACCTTCAACTGGAATACACCAAGCAAGAGCATTTTCTGATAACCTGTTT<br>CCATCCTGGGCCATTACCTTAATCTCAGTAAATGGAATTTTTGTGATATGCTGCCTGACCT<br>ACTGCTTTGCCCCAAGATGCAGAGAGAGAAGGAGGAATGAGAGATTGAGAAGGGAAAGTGT<br>ACGCCCTGTATGA |
| SEQ ID<br>NO:149 | Round 2<br>CTLA4BP<br>5x3-c3 | ATGAGCCACACACGGAGGCAGGGAACATCACCATCCAAGTGTCCGTACCTCAAGTTCTTTT<br>AGCTCTTGGTGTCTGGCTAGTCTTTCTCACTTCTGTTTCAAGTGTATCCACATGACCAAGGA<br>AGTGAAAGAAGTGGCAACGCTGTCTGTGGTCCCAATGTTTCCGTTGAAGAGCTGGCACA<br>ACTCGCATCTACTGGCAAAAGGAGAAGAAATGGTGTGCTGACTATGATGTCTGGGGACATGA<br>ATATATGGCCCGAGTACAAGAACCGGACCATCTTTGATATCACTAATAACCTCTCCATTGT<br>GATTCTGGCTCTGCGCCCATCTGACGAGGGCACATACGAGTGTGTTGTTCTGAAGTATGAA<br>AAAGATGCTTTCAAGCGAGAACACCTGGCTGAAGTGACGTTATCAGTCAAAGCTGACTTCC<br>CTACACCTAGTATATCTGACTTTGAAATTTCCAACCTTCTAACATTAGAAGGATAATTTGCTC<br>AACCTCTGGAGGTTTTCTGAGCCTCACCTCTCTGGCTGGAAAATGGAGAAGAATTAAT<br>GCCATCAACACAACAGTTTTCCCAAGATCCTGGAACCTGAGCTCTATACTGTTAGCAGCAAAC<br>TGGATTTCAATATGACAACCAACCACAGCTTCATGTGTCTCATCAAGTATGGACATTTAAG<br>AGTGAATCAGACCTTCAACTGGAATACACCAAGCAAGAGCATTTTCTGATAACCTGCTC<br>CCATCCTGGGCCATTACCTTAATCTCAGTAAATGGAATTTTTGTGATATGCTGCCTGACCC<br>ACTGTTTTGCCCCAAGATGCAGAGAGAGAAGGAGGAATGAGAGATTGAGAAGGGAAAGTGT<br>ATGCCCTGTATAG |
| SEQ ID           | Round 2                      | ATGAGCCACACACGGAGGCAGGGAATATCATCATCCAAGTGTCCATACCTCAAGTTCTTTT  |

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| NO:150           | CTLA4BP<br>5x2-h11           | AGCTCTTGGTGCTGGCTTGTCTTTCTCATTTCTGTTTCAGGTGTTATCCACGTGACCAAGAA<br>AGTGAAAGAAGTGGCAACACTGTCTGTGGTCACAATGTTTCTGTTGAAGAGCTGGCACAA<br>ACTCGCATCTACTGGCAAAAGGGGAAGAAAATGGTGCTGACTATGATGTCTGGGGACATGA<br>ATATATGGCCCGAGTGCAAGAACCGGACCATCTTTGATATCACTAATAACCTCTCCATTGT<br>GATTCTGGCTCTGCGCCCATCTGACGAGGGCACATACGAGTGTGTTGTTCTGAAGTATGAA<br>AAAGACGCTTTCAAGCGGGAACACCTAGCTGAAGTGACGTTATCAGTCAAAGCTGACTTCC<br>CTACACCTAGTATATCTGACTTTGAAATTCCAACCTCTAATATTAGAAGGATAATTTGCTC<br>AACCTCTGGAGGTTTTCAGAGCCTCACCTCTTCTGGTTGGAAAATGGGGAAGAATTAAT<br>GCCATCAACACAACAGCTTCCCAAGATCCTGAAACTGAGCTCTATGCTGTTAGCAGCAAAC<br>TGGATTTCAATATGACAACCAACCACAGCTTCATGTGTCTCATCAAGTATGGACATTTAAG<br>AGTGAATCAGACCTTCAACTGGAATACACCCAAGCAAGAGCATTTTCTTGATAACCTGCTC<br>CCATCCTGGGCCATTACCTTAATCTCAGTAAATGGAATTTTGTGATATGCTGCCTGACCT<br>ACTGCTTTGCCCCAAGATGCAGAGAGAGAAAAGAGCAATGAGAGACTGAGAAGGGAAAGTGT<br>ACGCCCTGTATGA  |
| SEQ ID<br>NO:151 | Round 2<br>CTLA4BP<br>5x2-d7 | ATGGGCTACACACGGAGGCAGGGAACATCACCATCCGAGTGTCCATACCTCAAGTTCTTTC<br>AGCTCTTGGTGCTGGCTGGTCTTTCTCACTTCTGTTTCAGGTGTTATCCACATGACCAAGGA<br>AGTGAAAGAAGTGGCAACACTGTCTGTGGTCTCAATGTTTCTGTTGAAGAGCTGGCACAA<br>ACTCGCATCCACTGGCAAAAGGAGAAGAAAATGGTGCTGACTATGATGTCTGGGGACATGA<br>ATATATGGCCCGAGTACAAGAACCGGACCATCTTTGATATCACTAATAACCTCTCCATTGT<br>GATTCTGGCTCTGCGCCCATCTGACGAGGGCACATACGAGTGTGTTGTTCTGAAGTATGAA<br>AAAGATGCCTTCAAGCGGGAACACCTGGCTGAAGTGATGTTATCAGTCAAAGCTGACTTCC<br>CTACACCTAGTATATCTGACTTTGAAATTCCACCTTCTAATATTAGAAGGATAATTTGCTC<br>AACCTCTGGAGGTTTTCCTGAGCCTCACCTCTCCTGGCTGGAAAATGGAGAAGAATTAAT<br>GCCATCAACACAACAGTTTCCCAAGATCCTGAAACTGGGCTCTATATCTGTTAGCAGCAAAC<br>TGGATTTCAATATGACAACCAACCACAGCTTCATGTGTCTCATCAAGTATGGACATTTAAG<br>AGTGAATCAGACCTTCAACTGGAATACACCCAAGCAAGAGCATTTTCTTGATAACCTGCTC<br>CCATCCTGGGCCATTACCTTAATCTCAGTAAATGGAATTTTGTGATATGCTGCCTGACCT<br>ACTGCTTTGCCCCAAGATGCAGAGAGAGAAGGAGGAATGAGAGACTGAGAAGGGAAAGTGT<br>ACGCCCTGTATGA                                |
| SEQ ID<br>NO:152 | Round 2<br>CTLA4BP<br>5x2-b7 | ATGAGCCACACACGGAGGCAGGGAATATCACCATCCAAGTGTCCATACCTCAATTTCTTTC<br>GGCTCTTGGTGCTGGCTAGTCTTTCTCATTTCTGTTTCAGGTGTTATCCACGTGACCAAGGA<br>AGTGAAAGAAGTGGCAACACTGTCTGTGGTCAATGTTTCTGTTGAAGAGCTGGCACAA<br>ACTCGCATCCACTGGCAAAAGGAGAAGAAAATGGTGCTGACTATGATGTCTGGGGACATGA<br>ATATATGGCCCGAGTACAAGAACCGGACCATCTTTGATATCACTAATAACCTCTCCATTGT<br>GATTCTGGCTCTGCGCCCATCTGACGAGGGCACATACGAGTGTGTTGTTCTGAAGTATGAA<br>AAAGACGCTTTCAAGCGAGAACACCTAGCTGAAGTGACGTTATCAGTCAAAGCTGACTTCC<br>CTACACCTAGTATAACTGACTTTGAAATTCCACCTTCTAATATTAGAAGGATAATTTGCTC<br>AACCTCTGGAGGTTTTCAGAGCCTCACCTCTCCTGGCTGGAAAATGGAGAAGAATTAAT<br>GCCATCAACACAACAGTTTCCCAAGATCCTGGAACCTGAGCTCTATACTGTTAGCAGCAAAC<br>TGGATTTCAATATGACAGCCAATCACAGTTTGTGTGTCTCATCAAGTATGGACATTTAAG<br>AGTGAATCAGACCTTCAACTGGAATACACCCAAGCAAGAGCATTTTCTTGATAACCTGCTC<br>CCATCCTGGGCCATTACCTTAATCTCAGCAAATGGAATTTTGTGATATGCTGCCTGACCT<br>ACTGCTTTGCCCCAAGATGCAGAGAGAGAAGGAGGAATGAGAGATTGAGAAGGGAAAGTGT<br>ACGCCCTGTATGA                                    |
| SEQ ID<br>NO:153 | Round 2<br>CTLA4BP<br>5x2-b1 | ATGAGCCACACACGGAGGCAGGGAATATCACCATCCAAGTGTCCATACCTCAAGTTCTTTC<br>AGCTCTTGGTGCTGGCTAGTCTTTCTCATTTCTGTTTCAGGTGTTATCCACGTGACCAAGGA<br>AGTGAAAGAAGTGGCAACGCTGTCTGTGGTCAATGTTTCTGTTGAAGAGCTGGCACAA<br>ACTCGCATCTACTGGCAAAAGGAGAAGAAAATGGTGCTGACTATGATGTCTGGGGACATGA<br>ATATATGGCCCGAGCACAAGAACCGGACCATCTTTGATATCACTAATAACCTCTCCATTGT<br>GATTCTGGCTCTGCGCCCATCTGACGAGGGCACATACGAGTGTGTTGTTCTGAAGTATGAA<br>AAAGACGCTTTCAAGCGGGAACACCTGGCTGAAGTGATGTTATCCGTCAAAGCTGACTTCC<br>CTACACCTAGTATATCTGACTTTGAAATTCCACCTTCTAATATTAGAAGGATAATTTGCTC<br>AACCTCCGGAGGTTTTCCTGAGCCTCACCTCTCCTGGCTGGAAAATGGAGAAGAATTAAT<br>GCCATCAACACAACAGTTTCCCAAGATCCTGAAACTGAGCTCTATACTGGTAGCAGCAAAC<br>TGGATTTCAATATGACAACCAACCACAGCTTCATGTGTCTCATCAAGTATGGACATTTAAG<br>AGTGAATCAGACCTTCACTGGAATACACCCAAGCAAGAGCATTTTCTTGATAACCTGCTC<br>CCATCCTGGGCCATTACCTTAATCTCAGCAAATGGAATTTTGTGATATGCTGCCTGACCT<br>ACTGCTTTGCCCCAAGATGCAGAGAGAGAAGGAGGAATGAGACCCTGAGAAGGGAAAGTGT<br>ACGCCCTGTATGGGGTACCAAGCTTAAGTTTAAACCGCANNATCAGCC |



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| SEQ ID<br>NO:158 | Round 2<br>CTLA4BP<br>2x2-f3  | ATGCCCTGTATGA<br>ATGGGCCACACACGGAGGCAGGGAATATCACCATCCAAGTGTCCATACCTCAAGTTCTTTTC<br>AGCTCTTGGTGTCTGGCTTGTCTTTCTCATTTCTGTTTCAGGTGTTATCTACGTGACCAAGGA<br>AGTGAAAGAAGTGGCAACGCTGTCTGTGGTCACAATGTTTCTGTTGAAGAGCTGGCACA<br>ACTCGCATCTACTGGCAAAAGGAGAAGAAAATGGTGTGATTATGATGTCTGGGGACATGA<br>ATATATGGCCCGAGTACAAGAACCAGGACCATCTTTGATATCACTAATAACCTCTCCATTGT<br>GATTCTGGCTCTGCGCCCATCTGACGAGGGCACATAGGAGTGTGTTGTTCTGAAGTATGAA<br>AAAGATGCTTTCAAGCGGGAACACCTGGCTGAAGTGACGTTATCAGTCAAAGCTGACTTCC<br>CTACACCTAGTATATCTGACTTTGAAATTCACCTTCTAACATTAGAAGGATAATTTGCTC<br>AACCTCTGGAGGTTTTCTTGAGCCTCACCTCTCCTGGCTGGAAAATGGAGAAGAATTAAAT<br>GCCATCAACACAACAGTTTCCCAAGATCCTGGAAGTGAAGTGTATCTACTGTTAGCAGCAAAC<br>TGGATTTCAATATGACAACCAACCACAGCTTCATGTGTCTCATCAAGTATGGACATTTAAG<br>AGTGAATCAGACCTTCAACTGGAATACACCAAGCAAGAGCATTTCCTGATAACCTGCTC<br>CCATCTGGGCCATTACCTTAATCTCAGTAAATGGAATTTTGTGATATGCTGCCTGACCT<br>ACTGCTTTGCCCCAAGATGCAGAGAGAGAAGGAGGAATGAGAGATTGAGAAGGGAAAGTGT<br>ATGCCCTGTATGA |
| SEQ ID<br>NO:159 | Round 2<br>CTLA4BP<br>2x2-f12 | ATGGGCCACACACGGAGGCAGGGAACATCACCATCCAAGTGTCCATACCTCAAGTTCTTTTC<br>AGCTCTTGGTGTCTGGCTGGTCTTTCTCACTTCTGTTTCAGGTGTTATCCACGTGACCAAGGA<br>AGTGAAAGAAGTGGCAACACTGTCTGTGGTCACAATGTTTCTGTTGAAGAGCTGGCACA<br>ACTCGCATCCACTGGCAAAAGGAGAAGAAAATGGTGTGACTATGATGTCTGGGGACATGA<br>ATATATGGCCCGAGTACAAGAACCAGGACCATCTTTGATATCACTAATAACCTCTCCATTGT<br>GATTCTGGCTCTGCGCCCATCTGACGAGGGCACATACGGGTGTGTTGTTCTGGAGTATGAA<br>AAAGACGCTTTCAAGCGGGAACACCTGGCTGAAGTGATGTTATCCGTCAAAGCTGACTTCC<br>CTACACCTAGTATATCTGACTTTGAAATTCACCTTCTAACATTAGAAGGATAATTTGCTC<br>AACCTCTGGAGGTTTTCCAGAGCCTCACCTCTCCTGGCTGGAAAATGGAGAAGAATTAAAT<br>GCCATCAACACAACAGTTTCCCAAGATCCTGAAAGTGAAGTGTATGCTGTTAGCAGCAAAC<br>TGGATTTCAATATGACAACCAACCACAGCTTCATGTGTCTCATCAAGTATGGACATTTAAG<br>AGCGAATCAGACCTTCAACTGGAATACACCAAGCAAGAGCATTTCCTGATAACCTGCTC<br>CCATCTGGGCCATTACCTTAATCTCAGTAAATGGAATTTTGTGATATGCTGCCTGACCT<br>ACTGCTTTGCCCCAAGATGCAGAGAGAGAAGGAGGAATGAGAGATTGAGAAGGGAAAGTGT<br>ACGCCCTGTATGA                    |
| SEQ ID<br>NO:160 | Round 2<br>CTLA4BP<br>2x1-g8  | ATGGGCTACACACGGAGGCAGGGAACATCACCATCCAAGTGTCCATACCTCAATTTCTTTTC<br>AGCTCTTGGTGTCTGGCTAGTCTTTCTCACTTCTGTTTCAGGTGTTATCCACGTGACCAAGGA<br>AGTGAAAGAAGTGGCAACACTGTCTGTGGTCACAATGTTTCTGTTGAAGAGCTGGCACA<br>ACTCGCATCCACTGGCAAAAGGAGAAGAAAATGGTGTGACTATGATGTCTGGGGACATGA<br>ATATATGGCCCGAGTACAAGAACCAGGACCATCTTTGATATCACTAATAACCTCTCCGTTGT<br>GATTCTGGCTCTGCGCCCATCTGACGAGGGCACATACGAGTGTGTTGTTCTGAAGTATGAA<br>AAAGACGCTTTCAAGCGGGAACACCTGGCTGAAGTGACGTTATCAGTCAAAGCTGACTTCC<br>CTACACCTAGTATAACTGACTTTGAAATTCACCTTCTAACATTAGAAGGATAATTTGCTC<br>AACCTCTGGAGGTTTTCTTGAGCCTCACCTCTCCTGGCTGGAAAATGGAGAAGAATTAAAT<br>GCCATCAACACAACAGTTTCCCAAGATCCTGGAAGTGAAGTGTATCTACTGTTAGCAGCAAAC<br>TGGATTTCAATATGACAACCAATCGCAGTTTGTGTGTCTCATCAAGTATGGACATTTAAG<br>AGTGAATCAGACCTTCAACTGGAATACACCAAGCAAGAGCATTTCCTGATAACCTGCTC<br>CCATCTGGGCCATTACCTTAATCTCAGTAAATGGAATTTTGTGATATGCTGCCTGACCT<br>ACTGCTTTGCCCCAAGATGCAGAGAGAGAAAAGCAATGAGAGACTGAGAAGGGAAAGTGT<br>ACGCCCTGTATGA                    |
| SEQ ID<br>NO:161 | Round 2<br>CTLA4BP<br>2x1-f10 | ATGGGCTACACACGGAGGCAGGGAATATCACCATCCAAGTGTCCATACCTCAAGTTCTTTTC<br>AGCTCTTGGTGTCTGGCTGGTCTTTCTCACTTCTGTTTCAGGTGTTATCCACGTGACCAAGGA<br>AGTGAAAGAAGTGGCAACGCTGTCTGTGGTCACAATGTTTCTGTTGAAGAGCTGGCACA<br>ACTCGCATCCACTGGCAAAAGGAGAAGAAAATGGTGTGACTATGATGTCTGGGGACATGA<br>ATATATGGCCCGAGTACAAGAACCAGGACCATCTTTGATATCACTAATAACCTCTCCATTGT<br>GATTCTGGCTCTGCGCCCATCTGACGAGGGCACATACGAGTGTGTTGTTCTGAAGTATGAA<br>AAAGATGCTTTCAAGCGGGAACACCTGGCTGAAGTGATGTTATCCGTCAAAGCTGACTTCC<br>CTACACCTAGTATAACTGACTTTGAAATTCACCTTCTAACATTAGAAGGATAATTTGCTC<br>AACCTCTGGAGGTTTTCCAGAGCCTCGCTCGCCTGGATGGAAGATGGAGAAGAATTAAAT<br>GCCATCAACACAACAGTTTCCCAAGATCCTGGAAGTGAAGTGTATCTACTGTTAGCAGCAAAC<br>TGGATTTAATATGACAACCAACCACAGCTTCATGTGTCTCATCAAGTATGGACATTTAAG<br>AGTGAATCAGACCTTCAACTGGAATACACCAAGCAAGAGCATTTCCTGATAACCTGCTC<br>CCATCTGGGCCATTACCTTAATCTCAGTAAATGGAATTTTGTGATATGCTGCCTGACCT<br>ACTGCTTTGCCCCAAGATGCAGAGAGAGAAAAGCAATGAGAGACTGAGAAGGGAAAGTGT<br>ACGCCCTGTATGA                     |





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|                  |                               | CCATCCTGGGCCATTACCTTAATCTCAGTAAATGGAATTTTTGTGATATGCTGCCTGACCT<br>ACTGCTTTGCCCCAAGATGCAGAGAGAGAAGGAGGAATGAGAGATTGAGAAGGGAAAGTGT<br>ACGCCCTGTATGA  |
| SEQ ID<br>NO:166 | Round 2<br>CTLA4BP<br>2x1-b12 | ATGGGCCACACACGGAGGCAGGGGATATCACCATCCAAGTGTCATACCTCAAGTTCTTTT<br>AGCTCTTGGTGCTGGCTGGTCTTTCTCATCTCTGTTTCAGGTGTTATCCACATGACTAAGGA<br>AGTGAAAGAAGTGGCAACACTGTCTGTGGTCACAATGTTTCTGTTGAAGAGCTGGCACA<br>ACTCGCATCTACTGGCAAAAGGAGAAGAAAATGGTGCTGACTATGATGTCTGGGGACATGA<br>ATATATGGCCCGAGTACAAGAACCGGACCATCTTTGATATCACTAATAACCTCTCCATTGT<br>GATTCTGGCTCTGCGCCCATCTGACGAGGGCACATACGAGTGTGTTGCTCTGAAGTATGAA<br>AAAGATGCTTTCAAGCAGGAACACCTGGCTGAAGTGACGTTATCAGTCAAAGCTGACTTCC<br>CTACACCTAGTATATCTGACTTTGAAATTTCCACCTTCTAACATTAGAAGGATAATTTGCTC<br>AACCTCTGGAGGTTTTCCAGAGCCTCGCTCGCTGGATGGAAGATGGAGAAGAATTAAT<br>GCCATCAACACAACAGTTTCCCAAGATCCTGAAACTGAGCTCTATACTGTTAGCAGCAAAC<br>TGGATTTCAATATGACAGCCAACACAGCTTCATGTGTCTCATCAAGTATGGACATTTAAG<br>AGTGAATCAGACCTTCAACTGGAATACACCCAAGCAAGAGCATTTCCTGATAACCTGCTC<br>CCATCCTGGGCCATTACCTTAATCTCAGTAAATGGAATTTTTGTGATATGCTGCCTGACCT<br>ACTGCTTTGCCCCAAGATGCAGAGAGAGAAGGAGGAATGAGAGATTGAGAAGGGAAAGTGT<br>ATGCCCTGTATGA    |
| SEQ ID<br>NO:167 | Round 2<br>CTLA4BP<br>2x2-f1  | ATGGGCCACACACGGAGGCAGGGAATATCACCATCCAAGTGTCATACCTCAAGTTCTTTT<br>AGCTCTTGGGGCTGGCTTGTCTTTCTCATTTCTGTTTCAGGTGTTATCCACGTGACCAAGGA<br>AGTGAAAGAAGTGGCAACACTGTCTGTGGTCACAATGTTTCTGTTGAAGAGCTGGCACA<br>ACTCGCATCCACTGGCAAAAGGAGAAGAAAATGGTGCTGACTATGATGTCTGGGGACATGA<br>ATATATGGCCCGAGTACAAGAACCGGACCATCTTTGATATCACTAATAACCTCTCCATTGT<br>GATTCTGGCTCTGCGCCTATCTGACGAGGGCACATACGAGTGTGTTGTTCTGAAGTATGAA<br>AAGGACGCTTTCAAGCGGGAACACCTGGCTGAAGTGACGTTATCAGTCAAAGCTGACTTCC<br>CTACACCTAGTATATCTGACTTTGAAATTTCCAACTTCTAACATTAGAAGGATAATTTGCTC<br>AACCTCTGGAGGTTTTCCAGAGCCTCACCTCTTCTGGCTGGAAAATGGGGAAGAATTAAT<br>GCCATCAACACAACAGCTTCCCAAGATCCTGAAACTGAGCTCTATACTGTTAGCAGCAAAC<br>TGGATTTCAATATGACAACCAATCGCAGTTTTGTGTGTCTCATCAAGTATGGACATTTAAG<br>AGTGAATCAGACCTTCAACTGGAATACACCCAAGCAAGAGCATTTCCTGATAACCTACTC<br>CCATCCTGGGCCATTACCTTAATCTCAGTAAATGGAATTTTCGTGATATGCTGCCTGACCT<br>ACTGCTTTGCCCCAAGATGCAGAGAGAGAAGGAGGAATGAGAGATTGAGAAGGGAAAGTGT<br>ACGCCCTGTATGA |
| SEQ ID<br>NO:168 | Round 2<br>CTLA4BP<br>5x4-h1  | ATGAGCCACACACGGAGGCAGGGAATATCACCATCCAAGTGTCATACCTCAAGTTCTTTT<br>AGCTCTTGGTGCTGGCTTGTCTTTCTCATTTCTGTTTCAGGTGTTATCCACGTGACCAAGGA<br>AGTGAAAGAAGTGGCAACGCTGTCTGTGGTCACAATGTTTCTGTTGAAGAGCTGGCACA<br>ACTCGCATCCACTGGCAAAAGGAGAAGAAAATGGTGCTGACTATGATGTCTGGGGACATGA<br>ATATATGGCCCGAGTACAAGAACCGGACCATCTTTGATATCACTAATAACCTCTCCATTGT<br>GATTCTGGCTCTGCGCCCATCTGACGAGGGCACATACGAGTGTGTTGTTCTGAAGTATGAA<br>AAAGATGCTTTCAAGCGGAAACACCTGGCTGAAGTGATGTTATCCGTCAAAGCTGACTTCC<br>CTACACCTAGTATATCTGACTTTGAAATTTCCAACTTCTAATATTAGAAGGATAATTTGCTC<br>AACCTCTGGAGGTTTTCTGAGCCTCACCTTCTTCTGGCTGGAAAATGGAGAAGAATTAAT<br>GCCATCAACACAACAGCTTCCCAAGATCCTGAAACTGAGCTCTATACTGTTAGCAGCAAAC<br>TGGATTTCAATATGACAACCAATCGCAGTTTTGTGTGTCTCATCAAGTATGGACATTTAAG<br>AGTGAATCAGACCTTCAACTGGAATACACCCAAGCAAGAGCATTTCCTAATAACCTGCTC<br>CCATCCTGGGCCATTACCTTAATCTCAGTAAATGGAATTTTTGTGATATGCTGCCTGACCT<br>ACTGCTTTGCCCCAAGATGCAGAGAGAGGAGAAGGAATGAGACACTGAGAAGGGAAAGTGT<br>ACACCCTGTATGA |
| SEQ ID<br>NO:169 | Round 2<br>CTLA4BP<br>5x4-a1  | ATGGGCCACACACGGAGGCAGGGAACATCACCATCCAAGTGTCATACCTCAAGTTCTTTT<br>AGCTCTTGGTGCTGGCTGGTCTTTCTCATTTCTGTTTCAGGTGTTATCCACGTGACCAAGGA<br>AGTGAAAGAAGTGGCAACGCTGTCTGTGGTCACAATGTTTCTGTTGAAGAGCTGGCACA<br>ACTCGCATCTACTGGCAAAAGGAGAAGAAAATGGTGCTGACTATGATGTCTGGGGACATGA<br>ATATATGGCCCGAGCACAAGAACCGGACCATCTTTGATATCACTAATAACCTCTCCATTGT<br>GATTCTGGCTCTGCGCCCATCTGACGAGGGCACATACGAGTGTGTTGTTCTGAAGTATGAA<br>AAAGACGCTTTCAAGCGGGAACACCTGGCTGAAGTGACGTTATCAGTCAAAGCTGACTTCC<br>CTACACCTAGTATAACTGACTTTGAAATTTCCAACTTCTAATATTAGAAGGATAATTTGCTC<br>AACCTCTGGAGGTTTTCCAGAGCCTCACCTCTCTGGCTGGAAAATGGAGAAGAATTAAT<br>GCCATCAACACAACAGTTTCCCAAGATCCTGAAACTGAGCTCTATACTGTTAGCAGCAAAC<br>TGGATTTCAATATGACAACCAATCGCAGTTTTGTGTGTCTCATCAAGTATGGACATTTAAG<br>AGTGAATCAGACCTTCAACTGGAATACACCCAAGCAAGAGCATTTCCTAATAACCTGCTC<br>CCATCCTGGGCCATTACCTTAATCTCAGTAAATGGAATTTTTGTGATATGCTGCCTGACCT<br>ACTGCTTTGCCCCAAGATGCAGAGAGAGGAGAAGGAATGAGACACTGAGAAGGGAAAGTGT<br>ACACCCTGTATGA  |

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|                  |                               | AGTGAATCAGACCTTCAACTGGAATACACCCAAGCAAGAGCATTTTCCTGATAACCTGCTC<br>CCATCCTGGGCCATTACCTTAATCTCAGTAAATGGAATTTTGTGATATGCTGCCTGACCT<br>ACTGCTTTGCCCCAAGATGCAGGGAGAGAAGGAGGAATGAGAGATTGAGAAGGGAAAGTGT<br>ACGCCCTGTATGA   |
| SEQ ID<br>NO:170 | Round 2<br>CTLA4BP<br>5x2-f3  | ATGAGCCACACACGGAGGCAGGGAATATCACCATCCAAGTGTCCATACCTCAAGTTCTTTTC<br>AGCTCTTGGTGCTGGCTAGTCTTTCTCACTTCTGTTTCAGGTGTTATCCACGTGACCAAGGA<br>AGTGAAAGAAGTGGCAACGCTGTCTGTGGTCACAATGTTTCTGTTGAAGAGCTGGCACA<br>ACTCGCATCTACTGGCAAAAGGAGAAGAAAATGGTGTGACTATGATGCCTGGGGACATGA<br>ATATATGGCCCGAGTACAAGAACCGGACCATCTTTGATATCACTAATAACCTCTCCATTGT<br>GATTCTGGCTCTGCGCCCATCTGACGAGGGGCACATACGAGTGTGTTGTTCTGAGGTATGAA<br>AAAGATGCTTTCAAGCGGGAACACCTGGCTGAAGTGACGTTATCAGTCAAAGCTGACTTCC<br>CTACACCTAGTATATCTGACTTTGAAATTCCAACCTCTAATATTAGAAGGATAATTGCTC<br>AACCTCCGGAGGTTTTCTGAGCCTCACCTCTCCTGGCTGGAAAATGGGGAAGAATTAAAT<br>GCCATCAACACAACAGCTTCCCAAGATCCTGAACTGAGCTCTATACTGTTAGCAGCAAAC<br>TGGATTTCAATATGACAACCAATCGCAGTTTTGTGTGTCTCATCAAGTATGGACATTTAAG<br>AGTGAATCAGACCTTCAACTGGAATACACCCAAGCAAGAGCATTTTCCTGATAACCTGCTC<br>CCATCCTGGGCCATTACCTTAATCTCAGCAAATGGAATTTTGTGATATGCTGCCTGACCC<br>ACTGCTTCGCCCCAAGATGCAGAGAGAGAAGAGCAATGAGAGACTGAGAAGGGAAAGTGT<br>ACGCCCTGTATAG    |
| SEQ ID<br>NO:171 | Round 2<br>CTLA4BP<br>5x2-e12 | ATGAGCCACACACGGAGGCAGGGAATATCACCATCCAAGTGTCCGTACCTCAAGTTCTTTTC<br>AGCTCTTGGTGCTGGCTGGTCTTTCTCATTTCTGTTTCAGGTGTTATCCACGTGACTAAGGA<br>AGTGAAAGAAGTGGCAACACTGTCTGTGGTCACAATGTTTCTGTTGAAGAGCTGGCACA<br>ACTCGCATCCACTGGCAAAAGGAGAAGAAAATGGTGTGACTATGATGCTGGGGGCATGA<br>ATATATGGCCCGAGTACAAGAACCGGACCATCTTTGATATCACTAATAACCTCTCCATTGT<br>GATTCTGGCTCTGCGCCCATCTGACGAGGGGCACATACGAGTGTGTTGTTCTGAAGTATGAA<br>AAAGACGCTTTCAAGCGGGAACACCTAGCTGAAGTGACGTTATCAGTCAAAGCTGACTTCC<br>CTACACCTAGTATATCTGACTTTGAAATTCCAACCTCTAATATTAGAAGGATAATTGCTC<br>AACCTCTGGAGGTTTTCCAGAGCCTCACCTCTCCTGGCTGGAAAATGGAGAAGAATTAAAT<br>GCCATCAGCACAACAGTTTTCCCAAGATCCTGGAAGTGAAGTCTATGCTGTTAGCAGCAAAC<br>TGGATTTCAATATGACAACCAATCGCAGTTTTGTGTGTCTCATCAAGTATGGACATTTAAG<br>AGTGAATCAGACCTTCAACTGGAATACAACCAAGCAAGAGCATTTTCCTGATAACCTGCTC<br>CCATCCTGGGCCATTACCCTAATCTCAGTAAATGGAATTTTGTGATATGCTGCCTGACCT<br>ACTGCTTTGCCCCAAGATGCAGAGAGAGAAGGAGGAATGAGAGATTGAGAAGGGAAAGTGT<br>ACGCCCTGTATAG |
| SEQ ID<br>NO:172 | Round 2<br>CTLA4BP<br>2x4-h11 | ATGGGCTACACACGGAGGCAGGGAACATCACCATCCAAGTGTCCATACCTCAAGTTCTTTTC<br>AGCTCTTGGTGCTGGCTTGTCTTTCTCATTTCTGTTTCAGGTGTTATCCACGTGACTAAGGA<br>AGTGAAAGAAGTGGCAACACTGTCTGTGGTCACAATGTTTCTGTTGAAGAGCTGGCACA<br>ACTCGCATCTACTGGCAAAAGGAGAAGAAAATGGTGTGACTATGATGTCTGGGGACATGA<br>ATATATGGCCCGAGTACAAGAACCGGACCATCTTTGATATCACTAATAACCTCTCCATTGT<br>GATTCTGGCTCTGCGCCCATCTGACGAGGGGCACATACGAGTGTGTTGTTCTGGAGTATGAA<br>AAAGACGCTTTCAAGCGGGAACACCTGGCTGAAGTGATGTTATCCGTCAAAGCTGACTTCC<br>CTACACCTAGTATATCTGACTTTGAAATTCCACCTTCTAACATTAGAAGGATAATTGCTC<br>AACCTCTGGAGGTTTTCTGAGCCTCACCTCTCCTGGCTGGAAAATGGAGAAGAATTAAAT<br>GCCATCAACACAACAGTTTTCCCAAGATCCTGGAAGTGAAGTCTATGCTGTTAGCAGCAAAC<br>TGGATTTCAATATGACAACCAACCACAGCTTCATGTGTCTCATCAAGTATGGACATTTAAG<br>AGTGAATCAGACCTTCAACTGGAATACACCCAAGCAAGAGCATTTTCCTGATAACCTGCTC<br>CCATCCTGGGCCATTACCCTAATCTCAGTAAATGGAATTTTGTGATATGCTGCCTGGCCT<br>ACTGCTTTGCCCCAAGATGCAGAGGGAGAAGGAGGAATGAGAGATTGAGAAGGGAAAGTGT<br>ACGCCCTGTATGA |
| SEQ ID<br>NO:173 | Round 2<br>CTLA4BP<br>2x3-h2  | ATGGGCCACACACGGAGGCAGGGAACATCACCATCCAAGTGTCCGTACCTCAATTTCTTTTC<br>AGCTCTTGGTGCTGGCTTGTCTTTCTCACTTCTGTTTCAGGTGTTATCCACGTGACTAAGGA<br>AGTGAAAGAAGTGGCAACGCTGTCTGTGGTCACAATGTTTCTGTTGAAGAGCTGGCACA<br>ACTCGCATCTACTGGCAAAAGGAGAAGAAAATGGTGTGACTATGATGTCTGGGGACATGA<br>ATATATGGCCCGAGTACAAGAACCGGACCATCTTTGATATCACTAATAACCTCTCCATTGT<br>GATTCTGGCTCTGCGCCCATCTGACGAGGGGCACATACGAGTGTGTTGTTCTGAAGTATGAA<br>AAAGATGCTTTCAAGCGAGAACACCTGGCTGAAGTGATGTTATCCGTCAAAGCTGACTTCC<br>CTACACCTAGTATATCTGACTTTGAAATTCCACCTTCTAACATTAGAAGGATAATTGCTC<br>AACCTCTGGAGGTTTTCTGAGCCTCACCTCTCCTGGCTGGAAAATGGAGAAGAATTAAAT<br>GCCATCAACACAACAGTTTTCCCAAGATCCTGGAAGTGAAGTCTATGCTGTTAGCAGCAAAC<br>TGGATTTCAATATGACAACCAACCACAGCTTCATGTGTCTCATCAAGTATGGACATTTAAG<br>AGTGAATCAGACCTTCAACTGGAATACACCCAAGCAAGAGCATTTTCCTGATAACCTGCTC<br>CCATCCTGGGCCATTACCCTAATCTCAGTAAATGGAATTTTGTGATATGCTGCCTGGCCT<br>ACTGCTTTGCCCCAAGATGCAGAGGGAGAAGGAGGAATGAGAGATTGAGAAGGGAAAGTGT<br>ACGCCCTGTATGA |

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|                  |                      | TGGATTTCAATATGACAACCAACCACAGCTTCATGTGTCTCATCAAGTATGGACATTTAAG<br>AGTGAATCAGACCTTCAACTGGAATACAACCAAGCAAGAGCATTTTCCTGATAACCTGCTC<br>CCATCCTGGGCCATTACCCTAATCTCAGTAAAGGAATTTTTGTGATATGCTGCCTGACCT<br>ACTGCTTTGCCCAAGATGGAGAGAGAGAAAGAGCAATGAGAGACTGAGAAGGGAAAGTGT<br>ACGCCCTGTATAG  |
| SEQ ID<br>NO:174 | Round 2<br>CD28A12-5 | MGHTMKWGSLLPPKRCLWLSQLLVLTGLFYFCSGITPKSVTKRVKETVMLS CDYNTSTEEL<br>TSLRIYWRKDSKMXLAILPGKVQVWPEYKNRTITDMNDNLRIVILALRLSDSGTYTCVIQK<br>PDLKGAYKLEHLTSVRLMIRADFPVPTINDLGNPSNIRRLICSTSGGFPRPHLYWLENGE<br>ELNATNTTVSQDPGTLEYMISSELDNFVNTNNHSIVCLIKYGELLSVQIFPWSKPKQEPPIID<br>QLPFVWIIIPVSGALVLTAVVLYCLACRHVARWKRTRRNEETVGTERLSPIYLGSAQSSG             |
| SEQ ID<br>NO:175 | Round 2<br>CD28A4-5* | MGHTMKWGSLLPPKCPCLWLSQLLVLTGLFYFCSGITPKSVTKRVKETVMLS CDYNTSTEEL<br>TSLRIYWQKDSKMXLAILPGKVQVWPEYKNRTITDMNDNPRIVILALRLSDSGTYTCVIQK<br>PVLKGAYKLEHLTSVRLMIRADFPVPTINDLGNPSNIRRLICSTSGGFPRPHLYWLENGE<br>ELNATNTTVSQDPETKLYMISSELDNFVNTNNHSIVCLIKYGELSVSVQIFPWSKPKQEPPIID<br>QLPFVWIIIPVSGALVLTAVVLYCLACRHVARWKRTRRNEETVGTERLSPIYLGSAQSSG           |
| SEQ ID<br>NO:176 | Round 2<br>CD28A4-9  | MGHTMKWGSLLPPKRCLWLSQLLVLTGLFYFCSGITPKSVTKRVKETVMLS CDYNTSTEEL<br>TSLRIYWQKDSKMXLAILPGKVQVWPEYKNRTITDMNDNPRIVILALRLSDSGTYTCVIQK<br>PVLKGAYKLEHLTSVRLMIRADFPVPTINDLGNPSNIRRLICSTSGGFPRPHLYWLENGE<br>ELNATNTTVSQDPETKLYMISSELDNFVNTNNHSIVCLIKYGELSVSVQIFPWSKPKQEPPIID<br>QLPFVWIIIPVSGALVLTAVVLYCPACRHVARWKRTRRNEETVGTERLSPIYLGSAQSRAEV<br>PSLSX |
| SEQ ID<br>NO:177 | Round 2<br>Cd28A6-9  | MGHTMKWGSLLPPKRCLWLSQLLVLTGLFYFCSGITPKSVTKRVKETVMLS CDYNTSTEEL<br>TSLRIYWQKDSKMXLAILPGKVQVWPEYKNRTITDMNDNPRIVILALRLSDSGTYTCVIQK<br>PVLKGAYKLEHLASVRLMIRADFPVPTINDLGNPSNIRRLICSTSGGFPRPHLYWLENGE<br>ELNATNTTVSQDPGTLEYMISSELDNFVNTNNHSIVCLIKYGELSVSVQIFPWSKPKQEPPIID<br>QLPFLVIIIPVSGALVLTAVVLYCLACRHVARWKRTRRNEETVGTERLSPIYLGSAQSSG            |
| SEQ ID<br>NO:178 | Round 2<br>CD28A6-1  | MGHTMKWGSLLPPKRCLWLPQLLVLTGLFYFCSGITPKSVTKRVKETVMLS CDYNTSTEEL<br>TSLRIYWQKDSKMXLAILPGKVQVWPEYKNRTITDMNDNPRIVILALRLSDSGTYTCVIQK<br>PVLKGAYKLEHLASVRLMIRADFPVPTINDLGNPSNIRRLICSTSGGFPRPHLYWLENGE<br>ELNATNTTVSQDPETKLYMISSELDNFVNTNNHSIVCLIKYGELSVSVQIFPWSKPKQEPPIID<br>QLPFRVIIIPVSGALVLTAVVLYCLACRHVARWKRTRRNEETVGTERLSPIYLGSAQSSG            |
| SEQ ID<br>NO:179 | Round 2<br>CD28A8-4  | MGHTMKWGSLLPPKRCLWLSQLLVLTGLFYFCSGITPKSVTKRVKETVMLS CDYNTSTEEL<br>TSLRIYWQKDSKMXLAILPGKVQVWPEYKNRTITDMNDNPRIVILALRLSDSGTYTCVIQK<br>PVLKGAYKLEHLASVRLMIRADFPVPTINDLGNPSNIRRLICSTSGGFPRPHLYWLENGE<br>ELNATNTTVSQDPGTLEYMISSELDNFVNTNNHSIVCLIKYGELSVSVQIFPWSKPKQEPPIID<br>QLPFVWIIIPVSGALVLTAVVLYCLACRHVARWKRTRRNEETVGTERLSPIYLGSAQSSG            |
| SEQ ID<br>NO:180 | Round 2<br>CD28A8-6  | MGHTMKWGSLLPPKRCLWLSQLLVLTGLFYFCSGITPKSVTKRVKETVMPSCDYNTSTEEL<br>TSLRIYWQKDSKMXLAILPGKVQVWPEYKNRTITDMNDNPRIVILALRLSDSGTYTCVVQK<br>NENGSRREHLTSVTL SIRADFPVPSITDIGHAPAPNVKRI RCSASGGFPEPRLAWMEDGEE<br>LNAVNTTVQDLDTELYSVSSELDNFVNTNNHSIVCLIKYGELSVSVQIFPWSKPKQEPPIIDQ<br>LPFWVIIIPVSGALVLTAVVLYCLACRHVARWKRTRRNEETVGTERLSPIYLGSAQSSG            |
| SEQ ID<br>NO:181 | Round 2<br>CD28B2-8  | MGHTMKWGSLLPPKRCLWLSQLLVLTGLFYFCSGITPKSVTKRVKETVMLS CDYNTSTEEL<br>TSLRIYWQKDSKMXLAILPGKVQVWPEYKNRTITDMNDNPRIVILALRLSDKGTYTTCVIQK<br>PVLKGAYKLEHLASVRLMIRADFPVPTINDLGNPSNIRRLICSTSGGFPRPHLYWLENGE<br>ELNATNTTVSQDPGTLEYMISSELDNFVNTNNHSIVCLIKYGELSVSVQIFPWSKPKQEPPIID<br>QLPFVWIIIPVSGALVLTAVVLYCLACRHVARWKRTRRNEETVGTERLSPIYLGSAQSSG           |
| SEQ ID<br>NO:182 | Round 2<br>CD28B4-3  | MGHTMKWGSLLPPKRCLWLSQLLVLTGLFYFCSGITPKSVTKRVKETVMLS CDYNTSTEEL<br>TSLRIYWQKDSKMXLAILPGKVQVWPEYKNRTITDMNDNPRIVILALRLSDSGTYTCVIQK<br>PVLKGAYKLEHLTSVRLMIRADFPVPTINDLGNPSNIRRLICSTSGGFPRPHLYWLENGE<br>ELNATNTTVSQDPETKLYMISSELDNFMTSNHSFLCLVKYGDLTVSQTFYQESKPTPSAN<br>QHLTWTIIIPVSAFGISVIIAVILTCLTCRNAAIRRQRRENEVKMQSCSQSP                        |
| SEQ ID<br>NO:183 | Round 2<br>CD28B6-3  | MGHTMKWGSLLPPKRCLWLSQLLVLTGLFYFCSGITPKSVTKRVKETVMLS CDYNTSTEEL<br>TSLRIYWQKDSKMXLAILPGKVQVWPEYKNRTITDMNDNPRIVILALRLSDSGTYTCVIQK<br>PDLKGAYKLEHLTSVRLMIRADFPVPTINDLGNPSNIRRLICSTSGGFPRPHLYWLENGE<br>ELNATNTTVSQDPETKLYMISSELDNFMTSNHSFLCLVKYGDLTVSQTFYQESKPTPSAN<br>QHLTWTIIIPVSAFGISVIIAVILTCLTCRNAAIRRQRRENEVKMQSCSQSP                        |
| SEQ ID<br>NO:184 | Round 2<br>CD28B6-6  | MGHTMKWGSLLPPKRCLWLSQLLVLTGLFYFCSGITPKSVTKRVKETVMLS CDYNTSTEEL<br>TSLRIYWQKDSKMXLAILPGKVQVWPEYKNRTITDMNDNPRIVILALRLSDKGTYTTCVIQK<br>PVLKGAYKLEHLTSVTL SIRADFPVPSITDIGHAPAPNVKRI RCSASGGFPEPRLAWMEDGE   |

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|                  |                      | ELNAVNTTVDQDLDTELYSVSSELDFNATNNHSIVCLIKYGELSVSQIFPWSKPKQEPPID<br>QLPFWVIVPVSGALVLTAVVLYCLACRHVAR   |
| SEQ ID<br>NO:185 | Round 2<br>CD28B8-5* | MGHTMKWGSLLPPKRCLWLSQLLVLTGLFYFCSGITPKSVTKRVKETVMLS CDYSTSTEEL<br>TSLRIYWQKDSKMLAILPGKVQVWPEYKNRTITDMNDNPRIVILALRLSDSGTYTCVIQK<br>PVLKGAYKLEHLTSVRLMIRADFPVPTINDLGNPSPNIRRLICSTSGGFPRPHLYWLENGE<br>ELNATNTTLSQDPGTLEYMISSELDNFVNTNNHSIVCLIKYGELSVSQIFPWSKPKQEPPID<br>QLPFWVIIIPVSGALVLTAVVLYCLACRHVARWKRRTRNEETVGTERLSPIYLGSAQSSG  |
| SEQ ID<br>NO:186 | Round 2<br>CD28C11-5 | MGHTMKWGSLLPPKRCLWLSQLLVLTGLFYFCSGITPKSVTKRVKETVMLS CDYSTSTEEL<br>TSLRIYWQKDSKMLAILPGKVQVWPEYKNRTITDMNDNPRIVILALRLSDSGTYTCVIQK<br>PVLKGAYKLEHLTSVRLMIRADFPVPTINDLGNPSPNIRRLICSTSGGFPRPHLYWLENGE<br>ELNATNTTVS QDPGTLEYMISSELDNFVNTNNHSIACLIKYGELSVSQIFPWSKPKQEPPID<br>QLPFWVIIIPVSGALVLTAVVLYCLACRHVARWKRRTRNEETVGTERLSPIYLGSAQSSG |
| SEQ ID<br>NO:187 | Round 2<br>CD28C6-1  | MGHTMKWGSLLPPKRCLWLSQLLVLTGLFYFCSGITPKSVTKRVKETVMLS CDYSTSTEEL<br>TSLRIYWQKDSKMLAILPGKVQVWPEYKNRTITDMNDNPRIVILALRLSDSGTYTCVIQK<br>PVLKGAYKLEHLASVRLMIRADFPVPTINDLGNPSPNIRRLICSTSGGFPRPHLYWLENGE<br>ELNATNTTVS QDPGTLEYMISSELDNFVNTNNHSIVCLIKYGELSVSQIFPWSKPKQEPPID<br>QLPFWVIIIPVSGALVLTAVVLYCLACRHVARWKRRTRNEETVGTERLSPIYLGSAQSSG |
| SEQ ID<br>NO:188 | Round 2<br>CD28C7-3  | MGHTMKWGSLLPPKRCLWLSQLLVLTGLFYFCSGITPKSVTKRVKETVMLS CDYSTSTEEL<br>TSLRIYWQKDSKMLAILPGKVQVWPEYKNRTITDMNDNPRIVILALRLSDSGTYTCVIQK<br>PDLKGAYKLEHLTSVRLMIRADFPVPSITDIGHAPPNVKRIRCSASGDFPEPRLAWMEDGE<br>ELNAVNTTVDQDLDTELYSVSSELDFNVTNNHSIVCLIKYGELSVSQIFPWSKPKQEPPID<br>QLPFWVIIIPVSGALVLTAVVLYCLACRHVARWKRRTRNEETVGTERLSPIYLGSAQSSG   |
| SEQ ID<br>NO:189 | Round 2<br>CD28C8-6  | MGHTMKWGSLLPPKRCLWLSQLLVLTGLFYFCSGITPKSVTKRVKETVMLS CDYSTSTEEL<br>TSLRIYWQKDSKMLAILPGKVQVWPEYKNRTITDMNDNPRIVILALRLSDSGTYTCVIQK<br>PVLKGAYKLEHLASVRLMIRADFPVPTINDLGNPSPNIRRLICSTSGGFPRPHLYWLENGE<br>ELNATNTTVS QDPGTLEYMISSELDNFVNTNNHSIVCLIKYGELSVSQIFPWSKPKQEPPID<br>QLPFWVIIIPVSGALVLTAVVLYCLACRHVARWKRRTRNEETVGTERLSPIYLGSAQSSG |
| SEQ ID<br>NO:190 | Round 2<br>CD28C9-5* | MGHTMKWGSLLPPKRCLWLSQLLVLTGLFYFCSGITPKSVTKRVKETVMLS CDYSTSTEEL<br>TSLRIYWQKDSKMLAILPGKVQVWPEYKNRTITDMNDNPRIVILALRLSDSGTYTCVIQK<br>PVLKGAYKLEHLASVRLMIRADFPVPTINDLGNPSPNIRRLICSTSGGFPRPHLYWLENGE<br>ELNATNTTVS QDPGTLEYMISSELDNFVNTNNHSIVCLIKYGELSVSQIFPWSKPKQEPPID<br>QLPFWVIIIPVSGALVLTAVVLYCLACRHVARWKRRTRNEETVGTERLSPIYLGSAQSSG |
| SEQ ID<br>NO:191 | Round 2<br>CD28C2-4  | MGHTLRPGTPLRCLHLKGLLLALAGLHFSSGISQVTKSVKEMAALSCDYNISIDELARM<br>RIYWQKDQMVLSIISGQVEVWPEYKNRTITDMNDNPRIVILALRLSDSGTYTCVIQK PVL<br>KGAYKPEHLASVRLMIRADFPVPTINDLGNPSPNIRRLICSTSGGFPRPHLYWLENGEELN<br>ATNTTLSQDPETKLYMISSELDNFMTSNHSFLCLVKYGDLTVSQTFYWQESKPTPSANQHL<br>TWTIIIPVSAFGISVIIAVILTCLTCRNAAIRRORRENEVEMQSCSQSP                |
| SEQ ID<br>NO:192 | Round 2<br>CD28D2-3  | MGHTMKWGSLLPPKRCLWLSQLLVLTGLFYFCSGITPKSVTKRVKETVMLS CDYSTSTEEL<br>TSLRIYWQKDSKMLAILPGKVQVWPEYKNRTITDMNDNPRIVIQALRLSDSGTYTCVIQK<br>PVLKGAYKLEHLASVRLMIRADFPVPTDLGNPSPNIRRLICSTSGGFPRPHLYWLENGEEL<br>NATNTTVS QDPGTLEYMISSELDNFVNTNNHSIVCLIKYGELSVSQIFPWSKPKQEPPIDQL<br>PFWVIIIPVSGALVLTAVVLYCLACRHVARWKRRTRNEETVGTERLSPIYLGSAQSSG   |
| SEQ ID<br>NO:193 | Round 2<br>CD28D2-9  | MGHTMKWGSLLPPKRCLWLSQLLVLTGLFYFCSGITPKSVTKRVKETVMLS CDYSTSTEEL<br>TSLRIYWQKDSKMLAILPGKVQVWPEYKNRTITDMNDNPRIVILALRLSDSGTYTCVIQK<br>PVLKGAYKLEHLTSVRLMIRADFPVPTINDLGNPSPNIRRLICSTSGGFPRPHLYWLENGE<br>ELNATNTTLSQDPETLEYMISSELDNFVNTNNHSIVCLIKYGELSVSQIFPWSKPKQEPPID<br>QLPFWVIIIPVSGALVLTAVVLYCLACRHVARWKRRTRNEETVGTERLSPIYLGSAQSSG  |
| SEQ ID<br>NO:194 | Round 2<br>CD28D8-9  | MGHTMKWGSLLPPKRCLWLSQLLVLTGLFYFCSGITPKSVTKRVKETVMLS CDYSTSTEEL<br>TSLRIYWQKDSKMLAILPGKVQVWPEYKNRTITDMNDNPRIVILALRLSDSGTYTCVIQK<br>PVLKGAYKLEHLTSVRLMIRADFPVPTINDLGNPSPNIRRLICSTSGGFPRPHLYWLENGE<br>ELNATNTTVS QDPGTLEYMISSELDNFVNTNNHSIVCLIKYGELSVSQIFPWSKPKQEPPID<br>QLPFWVIIIPVSGALVLTAVVLYCLACRHVARWKRRTRNEETVGTERLSPIYLGSAQSSG |
| SEQ ID<br>NO:195 | Round 2<br>CD28D11-1 | MGHTMKWGSLLPPKRCLWLSQLLVLTGLFYFCSGITPKSVTKRVKETVMLS CDYSTSTEEL<br>TSLRIYWQKDSKMLAILPGKVQVWPEYKNRTITDMNDNPRIVILALRLSDSGTYTCVQK<br>NENGSRREHLTSVTL SIRADFPVPSITDIGHAPPNVKRIRCSASGDFPEPRLAWMEDGEE<br>LNAVNTTVDQDLDTELYSVSSELDFNVTNNHSIVCLIKYGELSVSQIFPWSKPKQEPPIDQ<br>LPFWVIIIPVSGALVLTAVVLYCLACRHVARWKRRTRNEETVGTERLSPIYLGSAQSSG     |
| SEQ ID<br>NO:196 | Round 2<br>CD28D12-5 | MGHTMKWGSLLPPKRCLWLSQLLVLTGLFYFCSGITPKSVTKRVKETVMLS CDYSTSTEEL<br>TSLRIYWQKDSKMLAILPGKVQVWPEYKNRTITDMNDNPRIVILALRLSDSGTYTCVIQK   |

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|                  |                       | PVLKGAYKLEHLASVRLMIRADFPVPSITDIGHAPAPNVKRIKCSASGDFPEPRLAWMEDGE<br>ELNAVNTTVLDTELYSVSSELDFNVTNNHSIVCLIKYGELSVSQIFPWSKPKQEPPIDQLP<br>FWVVIIPVSGALVLTAVVLYCLACRHVARWKRTRRNEETVGTERLSPIYLGSAQSSG  |
| SEQ ID<br>NO:197 | Round 2<br>CD28E10-6  | MGHTMEWGSLLPPKRCLWLSQLLVLTGLFYFCSGITPKSVTKRVKETVMLS CDYNTSTEEL<br>TSLRIYWQKDSKMVLAILPGKVQVWPEYKNRTITDMNDNPRIVILALRLSDSGTYTCVIQK<br>PVLKGAYKLEHLASVRLMIRADFPVPTINDLGNPSNIRRLICSTSGGFPRPHLYWLENGE<br>ELNATNTTSLQDPETELYMISSELDFNVTNNHSIVCLIKYGELSVSQIFPWSKPKQEPPID<br>QLPFWVVIIPVSGALVLTAVVLYCLACRHVARWKRTRRNEETVGTERLSPIYLGSAQSSG  |
| SEQ ID<br>NO:198 | Round 2<br>CD28F7-2   | MGHTMKWGSLLPPKRCLWLSQLLVLTGLFYFCSGITPKSVTKRVKETVMLS CDYSTSTEEL<br>TSLRIYWQKDSKMVLAILPGKVQVWPEYKNRTITDMNDNPRIVILALRLSDSGTYTCVIQK<br>PVLKGAYKLEHLASVRLMIRADFPVPTINDLGNPSNIRRLICSTSGGFPEPRLAWMEDGE<br>ELNAVNTTVDQDLDELYSVSSELDFNVTNNHSIVCLIKYGELSVSQIFPWSKPKQEPPID<br>QLPFWVVIIPVSGALVLTAVVLYCLACRHVARWKRTRRNEETVGTERLSPIYLGSAQSSG   |
| SEQ ID<br>NO:199 | Round 2<br>CD28F8-4   | MGHTMKWGSLLPPKRCLWLSQLLVLTGLFYFCSGITPKSVTKRVKETVMLS CDYSTSTEEL<br>TSLRIYWQKDSKMVLAILPGKVQVWPEYKNRTITDMNDNPRIVILALRLSDSGTYTCVIQK<br>PVLKGAYKLEHLASVRLMIRADFPVPTINDLGNPSNIRRLICSTSGGFPRPHLYWLENGE<br>ELNATNTTSLQDPETKLYMISSELDFNVTNNHSIVCLIKYGELSVSQIFPWSKPKQEPPID<br>QLPFWVVIIPVSGALVLTAVVLYCLACRHVARWKRTRRNEETVGTERLSPIYLGSAQSSG  |
| SEQ ID<br>NO:200 | Round 2<br>CD28F10-2  | MGHTMKWGSLLPPKRCLWLSQLLVLTGLFYFCSGITPKSVTKRVKETVMLS CDYNTSTEEL<br>TSLRIYWQKDSKMVLAILPGKVQVWPEYKNRTITDMNDNPRIVILALRLSDSGTYTCVIQK<br>PDLKGAYKLEHLTSVRLMIRADFPVPSITDIGHAPAPNVKRIKCSASGDFPEPRLAWMEDGE<br>ELNAVNTTVDQDLDELYSVSSELDFNVTNNHSIVCLIKYGELSVSQIFPWSKPKQEPPID<br>QLPFWVVIIPVSGALVLTAVVLYCLACRHVARWKRTRRNEETVGTERLSPIYLGSAQSSG |
| SEQ ID<br>NO:201 | Round 2<br>CD28F12-5* | MGHTMKWGSLLPPKRCLWLSQLLVLTGLFYFCSGITPKSVTKRVKETVMLS CDYNTSTEEL<br>TSLRIYWQKDSKMVLAILPGKVQVWPEYKNRTITDMNDNPRIVILALRLSDSGTYTCVIQK<br>PDLKGAYKLEHLASVRLMIRADFPVPSITDIGHAPAPNVKRIKCSASGDFPEPRLAWMEDGE<br>ELNAVNTTVDQDLDELYSVSSELDFNVTNNHSIVCLIKYGELSVSQIFPWSKPKQEPPID<br>QLPFWVVIIPVSGALVLTAVVLYCLACRHVARWKRTRRNEETVGTERLSPIYLGSAQSSG |
| SEQ ID<br>NO:202 | Round 2<br>CD28G2-8   | MGHTMKWGSLLPPKRCLWLSQLLVLTGLFYFCSGITPKSVTKRVKETVMLS CDYNTSTEEL<br>TSLRIYWQKDSKMVLAILPGKVQVWPEYKNRTITDMNDNPRIVILALRLSDSGTYTCVIQK<br>PVLKGAYKLEHLASVRLMIRADFPVPSINDLGNPSNIRRLICSTSGGFPRPHLYWLENGE<br>ELNATNTTVSQDPGTELYMISSELDFNVTNNHSIVCLIKYGELSVSQIFPWSKPKQEPPID<br>QLPFWVVIIPVSGALVLTAVVLYCLACRHVARWKRTRRNEETVGTERLSPIYLGSAQSSG  |
| SEQ ID<br>NO:203 | Round 2<br>CD28G1-5   | MGHTMKWGSLLPPKRCLWLSQLLVLTGLFYFCSGITPKSVTKRVKETVMLS CDYSTSTEEL<br>TSLRIYWQKDSKMVLAILPGKVQVWPEYKNRTFPDIINNLSLMILALRLSDKGYTCVVQK<br>NENGSRREHLTSVTLIRADFPVSSITDIGHAPAPNVKRIKCSASGGFPEPRLAWMEDGEE<br>LNAVNTTVDQDLDELYSVSSELDFNVTNNHSIVCLIKYGELSVSQIFPWSKPKQEPPIDQ<br>LPFWVVIIPVSGALVLTAVVLYCLACRHVARWKRTRRNEETVGTERLSPIYLGSAQSSG     |
| SEQ ID<br>NO:204 | Round 2<br>CD28G1-9   | MGHTMKWGSLLPPKRCLWLSQLLVLTGLFYFCSGITPKSVTKRVKETVMLS CDYNTSTEEL<br>TSLRIYWQKDSKMVLAILPGKVQVWPEYKNRTITDMNDNPRIVILALRLSDSGTYTCVIQK<br>PVLKGAYKLEHLTSVRLMIRADFPVPSITDIGHAPAPNVKRIKCSASGGFPEPRLAWMEDGE<br>ELNAVNTTVDQDLDELYSVSSELDFNVTNNHSIVCLIKYGELSVSQIFPWSKPKQEPPID<br>QLPFWVVIIPVSGALVLTAVVLYCLACRHVARWKRTRRNEETVGTERLSPIYLGSAQSSG |
| SEQ ID<br>NO:205 | Round 2<br>CD28H4-3   | MGHTMKWGSLLPPKRCLWLSQLLVLTDLFYFCSGITPKSVTKRVKETVMLS CDYNTSTEEL<br>TSLRIYWQKDSKMVLAILPGKVQVWPEYKNRTITDMNDNPRIVILALRLSDSGTYTCVIQK<br>PVLKGAYKLEHLASVRLMIRADFPVPTINDLGNPSNIRRLICSTSGGFPRPHLYWLENGE<br>ELNATNTTVSQDPGTELYMISSELDFNVTNNHSIVCLIKYGELSVSQIFPWSKPKQEPPID<br>QLPFWVVIIPVSGALVLTAVVLYCLACRHVARWKRTRRNEETVGTERLSPIYLGSAQSSG  |
| SEQ ID<br>NO:206 | Round 2<br>CD28H11-3  | MGHTMKWGSLLPPKRCLWLSQLLVLTGLFYFCSGITPKSVTKRVKETVMLS CDYNTSTEEL<br>TSLRIYWQKDSKMVLAILPGKVQVWPEYKNRTITDMNDNPRIVILALRLSDSGTYTCVIQK<br>PVLKGAYKLEHLASVRLMIRADFPVPTINDLGNPSNIRRLICSTSGGFPRPHLYWLENGE<br>ELNATNTTSLQDPETKLYMISSELDFNVTNNHSIVCLIKYGELSVSQIFPWSKPKQEPPID<br>QLPFWVVIIPVSGALVLTAAVLYCLACRHVARWKRTRRNEETVGTERLSPIYLGSAQSSG  |
| SEQ ID<br>NO:207 | Round 2<br>CD28H6-6   | MGHTMKWGSLLPPKRCLWLSQLLVLTGLFYFCSGITPKSVTKRVKETVMLS CDYSTSTEEL<br>TSLRIYWQKDSKMVLAILPGKVQVWPEYKNRTITDMNDNPRIVILALRLSDSGTYTCVIQK<br>PVLKGAYKLEHLASVRLMIRADFPVPTINDLGNPSNIRRLICSGFPRPHLYWLENGEELN<br>ATNTTVSQDPGTELYMISSELDFNVTNNHSIVCLIKYGELSVSQIFPWSKPKQEPPIDQLP<br>FWVVIIPVSGALVLTAVVLYCLACRHVARWKRTRRNEETVGTERLSPIYLGSAQSSG     |
| SEQ ID           | Round 2               | MGHTMKWGSLLPPKRCLWLSQLLVLTGLFYFCSGITPKSVTKRVKETVMLS CDYSTSTEEL  |



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| NO:208           | CD28E2-4             | TSLRIYWQKDSKMLAILPGKVQVWPEYKNRTITDMNDNPRIVILALRLSDKGYTCVIOK<br>PVLKGAYKLEHLASVRLMIRADFPVPTINDLGNPSPNIRRLICSTSGGFPRPHLYWLENGE<br>ELNATNTTTSQDPGTLEYMISSELDNFVNTNNHSIVCLIKYGELSVSQIFPWSKPKQEPPIID<br>QLPFWVIIIPVSGALVLTAVVLYCLACRHVARWKRTRRNEETVGTERLSPIYLGSAQSSG  |
| SEQ ID<br>NO:209 | Round 2<br>CD28B4-5a | MGHTMKWGSLLPKRPLWLSQLLVLTGLFYFCSGITPKSVTKRVKETVMLSCDYNTSTEEL<br>TSLRIYWQKDSKMLAILPGKVQVWPEYKNRTITDMNDNPRIVILALRLSDSGTYTCVIOK<br>PVLKGAYKLEHLASVRLMIRADFPVPTINDLGNPSPNIRRLICSTSGGFPRPHLYWLENGE<br>ELNATNTTTSQDPGTLEYMISSELDNFVNTNNHSIVCLIKYGELSVSQIFPWSKPKQEPPIID<br>QLPFWVIIIPVSGALVLTAVVLYCLACRHVARWKRTRRNEETVGTERLSPIYLGSAQSSG |
| SEQ ID<br>NO:210 | Round 2<br>CD28A2-5  | MGHTMKWGSLLPKRPLWLSQLLVLTGLFYFCSGITPKSVTKRVKETVMLSCDYNTSTEEL<br>TSLRIYWQKDSKMLAILPGKVQVWPEYKNRTITDMNDNPRIVILALRLSDSGTYTCVIOK<br>PDLKGAYKLEHLASVRLMIRADFPVPSITDIGHAPAPNVKRIRCSASGGFPEPRLAWMEDGE<br>ELNAVNTTVDQDLDTLEYSVSSELDFNMTSNHSFLCLVKYGDLTVSQTFYWQESKPTPSAN<br>QHLLTWIIIPVSAFGISVIIAVILTCLTCRNAAIRRQRRENEGKCKVLSVSIQTKLKFNR  |
| SEQ ID<br>NO:211 | Round 2<br>CD28B4-5* | MGHTMKWGSLLPKRPLWLSQLLVLTGLFYFCSGITPKSVTKRVKETVMLSCDYNTSTEEL<br>TSLRIYWQKDSKMLAILPGKVQVWPEYKNRTITDMNDNPRIVILALRLSDKGYTCVIOK<br>PDLKGAYKLEHLASVRLMIRADFPVPSITDIGHAPAPNVKRIRCSASGGFPEPRLAWMEDGE<br>ELNAVNTTVDQDLDTLEYSVSSELDFNMTSNHSIVCLIKYGELSVSQIFPWSKPKQEPPIID<br>QLPFWVIIIPVSGALVLTAVVLYCLACRHVARWKRTRRNEETVGTERLSPIYLGSAQSSG  |
| SEQ ID<br>NO:212 | Round 2<br>CD28D5-6  | MGHTMKWGSLLPKRPLWLSQLLVLTGLFYFCSGITPKSVTKRVKETVMLSCDYNTSTEEL<br>TSLRIYWQKDSKMLAILPGKVQVWPEYKNRTITDMNDNPRIVILALRLSDSGTYTCVIOK<br>PVLKGAYKLEHLASVRLMIRADFPVPTINDLGNPSPNIRRLICSTSGGFPRPHLYWLENGE<br>ELNATNTTTSQDPETKLYMISSELDNFMTSNHSFLCLVKYGDLTVSQSFYWQESKPTPSAN<br>QHLLTWIIIPVSAFGISVIIAVILTCLTCRNAAIRRQRRENEVEMQSCSQSP           |
| SEQ ID<br>NO:213 | Round 2<br>CD28D10-4 | MGHTMKWGSLLPKRPLWLSQLLVLTGLFYFCSGITPKSVTKRVKETVMLSCDYNTSTEEL<br>TSLRIYWQKDSKMLAILPGKVQVWPEYKNRTITDMNDNPRIVILALRLSDKGYTCVIOK<br>NENGSRREHLTSVTLIRADFPVPSITDIGHAPAPNVKRIRCSASGGFPEPRLAWMEDGEE<br>LNAVNTTVDQDLDTLEYSVSSELDFNMTSNHSIVCLIKYGELSVSQIFPWSKPKQEPPIIDQ<br>LPFWVIIIPVSGALVLTAVVLYCLACRHVARWKRTRRNEETVGTERLSPIYLGSAQSSG     |
| SEQ ID<br>NO:214 | Round 2<br>CD28E2-5* | MGHTMKWGSLLPKRPLWLSQLLVLTGLFYFCSGITPKSVTKRVKETVMLSCDYNTSTEEL<br>TSLRIYWQKDSKMLAILPGKVQVWPEYKNRTITDMNDNPRIVILALRPSDSGYTCVIOK<br>PVLKGAYKLEHLASVRLMIRADFPVPTINDLGNPSPNIRRLICSTSGGFPRPHLYWLENGE<br>ELNATNTTTSQDPETKLYMISSELDNFMTSNHSFLCLVKYGDLTVSQTFYWQESKPTPSAN<br>QHLLTWIIIPVSAFGISVIIAVILTCLTCRNAAIRRQRRENEVEMQSCSQSP            |
| SEQ ID<br>NO:215 | Round 2<br>CD28E5-2  | MGHTMKWGSLLPKRPLWLSQLLVLTGLFYFCSGITPKSVTKRVKETVMLSCDYNTSTEEL<br>TSLRIYWQKDSKMLAILPGKVQVWPEYKNRTITDMNDNPRIVILALRLSDSGTYTCVIOK<br>PDLKGAYKLEHLASVRLMIRADFPVPTINDLGNPSPNIRRLICSTSGGFPRPHLYWLENGE<br>ELNATNTTTSQDPETKLYMISSELDNFVNTNNHSIVCLIKYGELSVSQIFPWSKPKQEPPIID<br>QLPFWVIIIPVSGALVLTAVVLYCLACRHVARWKRTRRNEETVGTERLSPIYLGSAQSSG |
| SEQ ID<br>NO:216 | Round 2<br>CD28E8-6  | MGHTMKWGSLLPKRPLWLSQLLVLTGLFYFCSGITPKSVTKRVKETVMLSCDYNTSTEEL<br>TSLRIYWQKDSKMLAILPGKVQVWPEYKNRTITDMNDNPRIVILALRLSDSGTYTCVIOK<br>PVLKGAYKLEHLASVRLMIRADFPVPTINDLGNPSPNIRRLICSTSGGFPRPHLYWLENGE<br>ELNATNTTTSQDPETKLYMISSELDNFMTSNHSFLCLVKYGDLTVSQTFYWQESKPTPSAN<br>QHLLTWIIIPVSAFGISVIIAVILTCLTCRNAAIRRQRRENEVEMQSCSQSP           |
| SEQ ID<br>NO:217 | Round 2<br>CD28E9-6  | MGHTMKWGSLLPKRPLWLSQLLVLTGLFYFCSGITPKSVTKRVKETVMLSCDYNTSTEEL<br>TSLRIYWQKDSKMLAILPGKVQVWPEYKNRTITDMNDNPRIVILALRLSDKGYTCVIOK<br>PDLKGAYKLEHLASVRLMIRADFPVPTINDLGNPSPNIRRLICSTSGGFPRPHLYWLENGE<br>ELNATNTTTSQDPGTLEYMISSELDNFVNTNNHSIVCLIKYGELSVSQIFPWSKPKQEPPIID<br>QLPFWVIIIPVSGALVLTAVVLYCLACRHVARWKRTRRNEETVGTERLSPIYLGSAQSSG  |
| SEQ ID<br>NO:218 | Round 2<br>CD28F3-1  | MGHTMKWGSLLPKRPLWLSQLLVLTGLFYFCSGITPKSVTKRVKETVMLSCDYNTSTEEL<br>TSLRIYWQKDSKMLAILPGKVQVWPEYKNRTITDMNDNPRIVILALRLSDSGTYTCVIOK<br>PDLKGAYKLEHLASVRLMIRADFPVPTINDLGNPSPNIRRLICSTSGGFPRPHLYWLENGK<br>ELNATNTTTSQDPETKLYMISSELDNFMTSNHSFLCLVKYGDLTVSQTFYWQESKPTPSAN<br>QHLLTWIIIPVSAFGISVIIAVILTCLTCRNAAIRRQRRENEVEMQSCSQSP           |
| SEQ ID<br>NO:219 | Round 2<br>CD28F3-5  | MGHTMKWGSLLPKRPLWLSQLLVLTGLFYFCSGITPKSVTKRVKETVMLSCDYNTSTEEL<br>TSLRIYWQKDSKMLAILPGKVQVWPEYKNRTITDMNDNPRIVILALRLSDSGTYTCVIOK<br>NENGSRREHLTSVTLIRADFPVPSITDIGHAPAPNVKRIRCSASGGFPEPRLAWMEDGEE<br>LNAVNTTVDQDLDTLEYSVSSELDFNMTSNHSIVCLIKYGELSVSQIFPWSKPKQEPPIIDQ<br>LPFWVIIIPVSGALVLTAVVLYCLACRHVARWKRTRRNEETVGTERLSPIYLGSAQSSG    |

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| SEQ ID<br>NO:220 | Round 2<br>CD28F3-6         | MGHTMKWGS LPPKR PCLRLS QLLVLTGLFYFCSGITPKSVTKRVKETVMLS CDYSTSTEEL<br>TSLRIYWQKDSKMVLAILPGKVQVWPEYKNRTITDMNDNPRIVILALRLSDSGTYTCVIQK<br>PDLKGAYKLEHLTSVRLMIRADFPVPTINDLGNPSPNIRRLICSTSGGFPRPHLYWLENGE<br>ELNATNTTLSQDPETKLYMISSELDNFVNTNNHSIVCLIKYGELSVSQIFPWSKPKQEPPIID<br>QLPFWVII PVSGALVLTAVVLYCLACRHVARWKTRRNEETVGTERLSPIYLGSAQSSG |
| SEQ ID<br>NO:221 | Round 2<br>CD28F11-8        | MGHTMKWGS LPPKR PCLWL S QLLVLTGLFYFCSGITPKSVTKRVKETVMLS CDYNTSTEEL<br>TSLRIYWQKDSKMVLAILPGKVQVWPEYKNRTITDMNDNPRIVILALRLSDSGTYTCVIQK<br>PVLKGAYKLEHLTSVRLMIRADFPVPTINDLGNPSPNIRRLICSTSGGFPRPHLYWLENGE<br>ELNATNTTLSQDPETKLYMISSELDNFMTSNLCLVKYGDLTVSQTFYWQESKPTPSANQHL<br>TWTIIIPVSAFGISVIIAVILTCLTCRNAAIRQRRENEVEMQSCSQSP             |
| SEQ ID<br>NO:222 | Round 2<br>CTLA4<br>5x9-d10 | MSHTRRQGTSPSKCPYLKFFQFLVLASLSHFCSGVIHVTKEVKEVATLSCGLNVSVEELAQ<br>TRIWQKGGKMLTMMSGDMNIWPEYKNRTIFDITNNLSIVILALRPSDEGTYECVVLEYE<br>KDAFKREHLAEVMSVKADFPPTPSISDFEIPPSNIRRIICSTSGGFPEPHLSWLENGEELN<br>AINTTASQDPGTETYTVSSKLDNFMTTNHSFMCLIKYGHLRVNQTFNWNTPKQEHFPDNL<br>PSWAITLISVNGIFVICCLTHCFAPRCRERRRNERLRRESARPV                         |
| SEQ ID<br>NO:223 | Round 2<br>CTLA4<br>5x6-f6  | MGYTRRQGTSPSKCPYLKFFQLLVLASLSHFCSGVIHVTKEVKEVATLSCGHNVSVVEELAQ<br>TPIYWQKEKKMLTMMSGDMNIWPEYKNRTIFDITNNLSIVILALRPSDEGTYECVVLKYE<br>KDAFKREHLAEVMSVKADFPPTPSITDFEIPPSNIRRIICSTSGGFPEPHLFWLENGEELN<br>AINTTVSQDPETELYTVSSKLDNFMTTNRSFVCLIKYGHLRVNQTFNWNTPKQEHFPDNL<br>PSWAITLISANGIFVICCLTYRFAPRCRERRRNERLRRESVCPV                       |
| SEQ ID<br>NO:224 | Round 2<br>CTLA4<br>5x5-h12 | MGYTRRQGISPSKCPYLKFFQLLVLASLSHFCSGVIHVTKEVKEVATLSCGHNVSVVEELAQ<br>TRIHQWKEKKMLTMMSGDMNIWPEYKNRTIFDITNNLSIVILALRPSDEGTYECVVLKYE<br>KDAFKREHLAEVMSVKADFPPTPSISDFEIPPSNIRRIICSTSGGFPEPHLSWLENGEELN<br>AINTTVSQDPGTETYTVSSKLDNFMTTDRSFVCLIKYGHLRVNQTFNWNTPKQEHFPDNL<br>PSWAITLISVNGIFVICCLTYCFAPRCRERRRNGRLRRESVRPV                       |
| SEQ ID<br>NO:225 | Round 2<br>CTLA4<br>5x5-c10 | MSHTQRQGISPSKCPYL NFFQLLVLASLSHFCSGVIHVTKEVKEVATLSCGHNVSVVEELAQ<br>TRIWQKEKKMLTMMSGDMNIWPEYKNRTIFDITNNLSIVILALRPSDEGTYECVVLEYE<br>KDAFKREHLAEVTL SVKADFPPTPSITDFEIPPSNIRRIICSTSGGFPEPHLFWLENGEELN<br>AISTTVSQDPETELYAVSSKLDNFMTTNHSFMCLIKYGHLRVNQTFNWNTTKQEHFPDNL<br>PSWAITLISVNGIFVICCLTYCFAPRCRERRRNERLRRESVHPV                     |
| SEQ ID<br>NO:226 | Round 2<br>CTLA4<br>5x3-e8  | MGHTRRQGTSPSKCPYLKFFQLLVLAGLSHLCSGVIHVTKEVKEVATLSCGHNVSVVEELAQ<br>TRIWQKEKKMLTMMSGDMNIWPEYKNRTIFDITNNLSIVILALRPSDEGTYECVVLEYE<br>KDAFKREHLAEVTL SVKADFPPTPSISDFEIPPSNIRRIICSTSGGFPEPHLFWLENGEELN<br>AINTTVSQDPETELYTVSSKLDNFMTANHSFVCLIKYGHLRVNQTFNWNTPKQEHFPDNL<br>PSWAITLISVNGIFVICCLTYCFAPGCRERRRNERLRRESVCPV                      |
| SEQ ID<br>NO:227 | Round 2<br>CTLA4<br>5x3-c4  | MSHIRRQGISPSKCPYL NFFQLLVLACL SHFCSGVIHVTKEVKEVATLSCGHNVSVVEELAQ<br>TRIWQKEKKMLTMMSGDMNIWPEYKNRTIFDITNNLSIVILALRPSDEGTYECVVLKYE<br>KDAFKREHLAEVTL SVKADFPPTPSISDFEIPPSNIRRIICSTSGGFPEPRLAWMEDGEELN<br>AINTTASQDPETELYTVSSKLDNFMTTNRSFVCLIKYGHLRVNQTFNWNTPKQEHFPDNL<br>PSWAITLISVNGIFVICCLTYCFAPRCRERRRNERLRRESVRPV                    |
| SEQ ID<br>NO:228 | Round 2<br>CTLA4<br>5c3-c3  | MSHTRRQGTSPSKCPYLKFFQLLVLASLSHFCSGVIHMTKEVKEVATLSCGPNVSVEELAQ<br>TRIWQKEKKMLTMMSGDMNIWPEYKNRTIFDITNNLSIVILALRPSDEGTYECVVLKYE<br>KDAFKREHLAEVTL SVKADFPPTPSISDFEIPPSNIRRIICSTSGGFPEPHLSWLENGEELN<br>AINTTVSQDPGTETYTVSSKLDNFMTTNHSFMCLIKYGHLRVNQTFNWNTPKQEHFPDNL<br>PSWAITLISVNGIFVICCLTHCFAPRCRERRRNERLRRESVCPV                       |
| SEQ ID<br>NO:229 | Round 2<br>CTLA4<br>5x2-h11 | MSHTRRQGISSKCPYLKFFQLLVLACL SHFCSGVIHVTKEVKEVATLSCGHNVSVVEELAQ<br>TRIWQKGGKMLTMMSGDMNIWPECKNRTIFDITNNLSIVILALRPSDEGTYECAVLKYE<br>KDAFKREHLAEVTL SVKADFPPTPSISDFEIPPSNIRRIICSTSGGFPEPHLFWLENGEELN<br>AINTTASQDPETELYAVSSKLDNFMTTNHSFMCLIKYGHLRVNQTFNWNTPKQEHFPDNL<br>PSWAITLISVNGIFVICCLTYCFAPRCRERKSNERLRRESVRPV                      |
| SEQ ID<br>NO:230 | Round 2<br>CTLA4<br>5x2-d7  | MGYTRRQGTSPSECPYLKFFQLLVLAGLSHFCSGVIHMTKEVKEVATLSCGLNVSVEELAQ<br>TRIHQWKEKKMLTMMSGDMNIWPEYKNRTIFDITNNLSIVILALRPSDEGTYECVVLKYE<br>KDAFKREHLAEVMSVKADFPPTPSISDFEIPPSNIRRIICSTSGGFPEPHLSWLENGEELN<br>AINTTVSQDPETGLYTVSSKLDNFMTTNHSFMCLIKYGHLRVNQTFNWNTPKQEHFPDNL<br>PSWAITLISVNGIFVICCLTYCFAPRCRERRRNERLRRESVRPV                        |
| SEQ ID<br>NO:231 | Round 2<br>CTLA4<br>5x2-b7  | MSHTRRQGISPSKCPYL NFFRLVLASLSHFCSGVIHVTKEVKEVATLSCGHNVSVVEELAQ<br>TRIHQWKEKKMLTMMSGDMNIWPEYKNRTIFDITNNLSIVILALRPSDEGTYECVVLKYE<br>KDAFKREHLAEVTL SVKADFPPTPSITDFEIPPSNIRRIICSTSGGFPEPHLSWLENGEELN<br>AINTTVSQDPGTETYTVSSKLDNFMTANHSFVCLIKYGHLRVNQTFNWNTPKQEHFPDNL   |

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| SEQ ID<br>NO:232 | Round 2<br>CTLA4<br>5x2-b1  | PSWAITLISANGIFVICCLTYCFAPRCRERRRNERLRRESVRPV<br>MSHTRRQGISPSKCPYLKFFQLLVLASLSHFCSGVIHVTKEVKEVATLSCGHNVSVVEELAQ<br>TRIWQKEKKMVLTMMSGDMNIWPEHKNRTIFDITNNLSIVILALRPSDEGTYECVVLKYE<br>KDAFKREHLAEVMLSVKADFPTPSISDFEIPPSNIRRIICSTSGGFPEPHLSWLENGEELN<br>AINTTVSQDPETELYTGSSKLDNFMTTNHSFMCLIKYGHRLVNQTFNWNTPKQEHFPDNL<br>PSWAITLISANGIFVICCLTYCFAPRCRERRRNETLRRESVRPVWGTLKFKPXIS |
| SEQ ID<br>NO:233 | Round 2<br>CTLA4<br>5x1-f1  | MGHTRRQGISPSKCPYLKFFQLLVLASLSHFCSGVIHVTKEVKEVATLSCGLNVSVVEELAQ<br>TRIWQKEKKMVLTMMSGDMNIWPEHKNRTIFDITNNLSIVILALRPSDEGTYECVVLKYE<br>KDAFKREHLAEVTLVSKADFPTPSITDFEIPPSNIRRIICSTSGGFPEPHLFWLENGEELN<br>AINTTASQDPETELYTVSSKLDNFMTANHSFVCLIKYGHRLVNQTFNWNTPKQEHFPDNL<br>PSWAITLISVNGIFVICCLTYCFAPRCRERRRNETLRRESVRPV  |
| SEQ ID<br>NO:234 | Round 2<br>CTLA4<br>5x1-d7  | MGYTRRQGTSPSKCPYLNFQLLVLASLSHFCSGVIHVTKEVKEVATLSCGHNVSVVEELAQ<br>TRIWQKEKKMVLTMMSGDMNIWPEYKNRTIFDITNNLSIVILALRPSDEGTYECVVLKYE<br>KDAFKREHLAEVMLSVKADFPTPSITDLEIPPSNIRRIICSTSGGFPEPHLFWLENGEELN<br>AINTTASQDPETELYAVSSKLDNFMTTNHSFMCLIKYGHRLVNQTFNWNTPKQEHFPDNL<br>PSWAITLISANGIFVICCLTYCFAPRCRERRRNERLRRESVHPV   |
| SEQ ID<br>NO:235 | Round 2<br>CTLA4<br>2x4-g9  | MGHTRRQGISPSKCPYLKFFQLLVLACL SHFCSGVIHVTKEVKEVATLSCGHNVSVVEELAQ<br>TRIWQKDKKMVLTMMSGDMNIWPEYKNQTFDITNNLSIVILALRPSDEGTYECVVLKYE<br>KDAFKQEHLEAVMLSVKADFPTPSISDFEIPPSNIRRIICSTSGGFPEPRLAWMEDGEELN<br>AISTTVSQDPGTELCVTSSKLDNFMTTNHSFMCLIRYGHRLVNQTFNWNTPKQEHFPDNL<br>PSWAITLISVKGIFVICCLTYCFAPRGRERKSNGRLRRESVHPV  |
| SEQ ID<br>NO:236 | Round 2<br>CTLA4<br>2x4-a6  | MGHTRRQGTSPSKCPYLKFFQLLVLAGLSHFCSGVIHVTKEVKEVATLSCGHNVSVVEELAQ<br>TRIHQWKEKKMVLTMMSGDMNIWPEYKNRTIFDITNNLSIVILALRPSDEGTYECVVLKYE<br>KDAFKREHLAEVMLSVKADFPTPSISDFEIPPSNIRRIICSTSGGFPEPHLFWLENGEELN<br>AISTTVSQDPETELYAXSSKLDNFMTTNHSFMCLIKYGHRLVNQTFNWNTPKQEHFPDNL<br>PSWAITLISVNGIFVICCTPTCYFAPRCRERRRNERLRRESVCPV  |
| SEQ ID<br>NO:237 | Round 2<br>CTLA4<br>2x2-f3  | MGHTRRQGISPSKCPYLKFFQLLVLACL SHFCSGVIYVTKEVKEVATLSCGHNVSVVEELAQ<br>TRIWQKEKKMVLIMMSGDMNIWPEYKNRTIFDITNNLSIVILALRPSDEGTECVVLKYE<br>DAFKREHLAEVTLVSKADFPTPSISDFEIPPSNIRRIICSTSGGFPEPHLSWLENGEELNA<br>INTTVSQDPGTETYTVSSKLDNFMTTNHSFMCLIKYGHRLVNQTFNWNTPKQEHFPDNL<br>SWAITLISVNGIFVICCLTYCFAPRCRERRRNERLRRESVCPV  |
| SEQ ID<br>NO:238 | Round 2<br>CTLA4<br>2x2-f12 | MGHTRRQGTSPSKCPYLKFFQLLVLAGLSHFCSGVIHVTKEVKEVATLSCGHNVSVVEELAQ<br>TRIHQWKEKKMVLTMMSGDMNIWPEYKNRTIFDITNNLSIVILALRPSDEGTYGCVVLEYE<br>KDAFKREHLAEVMLSVKADFPTPSISDFEIPPSNIRRIICSTSGGFPEPHLSWLENGEELN<br>AINTTVSQDPETELYAVSSKLDNFMTTNHSFMCLIKYGHRLANQTFNWNTPKQEHFPDNL<br>PSWAITLISVNGIFVICCLTYCFAPRCRERRRNERLRRESVRPV   |
| SEQ ID<br>NO:239 | Round 2<br>CTLA4<br>2x1-g8  | MGYTRRQGTSPSKCPYLNFQLLVLASLSHFCSGVIHVTKEVKEVATLSCGHNVSVVEELAQ<br>TRIHQWKEKKMVLTMMSGDMNIWPEYKNRTIFDITNNLSVILALRPSDEGTYECVVLKYE<br>KDAFKREHLAEVTLVSKADFPTPSITDFEIPPSNIRRIICSTSGGFPEPHLSWLENGEELN<br>AINTTVSQDPGTETYTVSSKLDNFMTTNRSFVCLIKYGHRLVNQTFNWNTPKQEHFPDNL<br>PSWAITLISVNGIFVICCLTYCFAPRCRERKSNERLRRESVRPV   |
| SEQ ID<br>NO:240 | Round 2<br>CTLA4<br>2x1-f10 | MGYTRRQGISPSKCPYLKFFQLLVLAGLSHFCSGVIHVTKEVKEVATLSCGHNVSVVEELAQ<br>TRIHQWKEKKMVLTMMSGDMNIWPEYKNRTIFDITNNLSIVILALRPSDEGTYECVVLKYE<br>KDAFKREHLAEVMLSVKADFPTPSITDFEIPPSNIRRIICSTSGGFPEPRLAWMEDGEELN<br>AINTTVSQDPGTETYAVSSKLDNFMTTNHSFMCLIKYGHRLVNQTFNWNTPKQEHFPDNL<br>PSWAITLISVNGISVICCLTYCFAPRCRERRRNERLRRESVCPV   |
| SEQ ID<br>NO:241 | Round 2<br>CTLA4<br>2x1-c9  | MSHTRRQGISPSKCPYLKFFQLLVLAGLSHFCSGVIHVTKEVKEVATLSCGHNVSAABELAQ<br>TRIWQKEKKMVLTMMSGDMNIWPEYKNRTIFDITNNLSIVILALRPSDEGTYECVVLKYE<br>KDAFKREHLAEVMLSVKADFPTPSITDFEIPPSNIRRIICSTSGGFPEPRLAWMEDGEELN<br>AISTTASQDPETELYTVSSKLDNFMTTNHSFMCLIKYGHRLVNQTFNWNTPKQEHFPDNL<br>PSWAITLISVNGIFVICCLTHCFAPRCRERRRNERLRRESVCPV  |
| SEQ ID<br>NO:242 | Round 2<br>CTLA4<br>2x1-h12 | MGHTRRQGISPSKCPYLKFFQLLVLAGLSHFCSGVIHVTKEVKEVATLSCGLNVSVVEELAQ<br>TRIHQWKEKKMVLTMMSGDMNIWPEYKNRTIFDITNNLSIVILALRPSDEGTYECVVLKYE<br>KDAFKREHLAEVMLSVKADFPTPSITDFEIPPSNIRRIICSTSGGFPEPHLSWLENGEELN<br>AINTTVSQDPGTETYTVSSKLDNFMTTNHSFMCLIKYGHRLVNQTFNWNTPKQEHFPDNL<br>PSWAITLISANGIFVICCLTYCFAPRCRERKSNERLRRESVCPV   |
| SEQ ID<br>NO:243 | Round 2<br>CTLA4<br>2x1-e2  | MGYTRRQGISPSKCPYLKFFQLLVLACL SHFCSGVIHVTKEVKEVATLSCGHNVSDDEELAQ<br>TRIHQWKEKKMVLTMMSGDMNIWPEYKNRTIFDITNNLSIVILALRPSDEGTYECVVLKYE<br>KDAFKREHLAEVTLVSKADFPTPSISDFEIPPSNIRRIICSTSGGFPEPHLSWLENGEELN  |

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|                  |                             | AINTTVSQDPGTETYTVSSKLDNFMTTNHSMCLIKYGLRVNQTFNWNTPKQEHF PDNLL<br>PSAITLISANGIFVICCLTYCFAPRCRERRRNERLRRESIHPV  |
| SEQ ID<br>NO:244 | Round 2<br>CTLA4<br>2x1-c4  | MGYTRRQGISPSKCPYLKFFQLLVLAGLSHLCSGVIHVTKEVKEVATLPCGHNVSVVEELAQ<br>TRIHWOKEKKMVLTMMSGDMNIWPEYKNRTIFDITNNLSIVILALRPSDEGTYESVVLKYE<br>KDAFKREHLAEVMSVKADFTPSTISDFEIPPSNIRRIICSTSGGFPEPHLFWLENGEELN<br>AINTTVSQDPGTETYAVSSKLDNFMTTNHSMCLIKYGLRVNQTFNWNTPKQEHF PDNLL<br>PSWAITLISVNGIFVICCLTYCFAPRCRERRRNERLRRESVRPV  |
| SEQ ID<br>NO:245 | Round 2<br>CTLA4<br>2x1-b12 | MGHTRRQGISPSKCPYLKFFQLLVLAGLSHLCSGVIHMTKEVKEVATLSCGHNVSVVEELAQ<br>TRIIYWOKEKKMVLTMMSGDMNIWPEYKNRTIFDITNNLSIVILALRPSDEGTYESVVALKYE<br>KDAFKQEHLEAVTMSVKADFTPSTISDFEIPPSNIRRIICSTSGGFPEPRLAWMEDGEELN<br>AINTTVSQDPETELYTVSSKLDNFMTANHSFMCLIKYGLRVNQTFNWNTPKQEHF PDNLL<br>PSWAITLISVNGIFVICCLTYCFAPRCRERRRNERLRRESVCPV  |
| SEQ ID<br>NO:246 | Round 2<br>CTLA4<br>2x2-f1  | MGHTRRQGISPSKCPYLKFFQLLVLAGLSHLCSGVIHVTKEVKEVATLSCGHNVSVVEELAQ<br>TRIHWOKEKKMVLTMMSGDMNIWPEYKNRTIFDITNNLSIVILALRLSDEGTYESVVLKYE<br>KDAFKREHLAEVTLMSVKADFTPSTISDFEIPPSNIRRIICSTSGGFPEPHLFWLENGEELN<br>AINTTASQDPETELYTVSSKLDNFMTNRSFVCLIKYGLRVNQTFNWNTPKQEHF PDNLL<br>PSWAITLISVNGIFVICCLTYCFAPRCRERRRNERLRRESVRPV  |
| SEQ ID<br>NO:247 | Round 2<br>CTLA4<br>5x4-h1  | MSHTRRQGISPSKCPYLKFFQLLVLAGLSHLCSGVIHVTKEVKEVATLSCGHNVSVVEELAQ<br>TRIHWOKEKKMVLTMMSGDMNIWPEYKNRTIFDITNNLSIVILALRPSDEGTYESVVLKYE<br>KDAFKRKHLAEVMSVKADFTPSTISDFEIPPSNIRRIICSTSGGFPEPHLFWLENGEELN<br>AINTTASQDPETELYTVSSKLDNFMTNRSFVCLIKYGLRVNQTFNWNTPKQEHF PDNLL<br>PSWAITLISVNGIFVICCLTYCFAPRCRERRRNERLRRESVHPV  |
| SEQ ID<br>NO:248 | Round 2<br>CTLA4<br>5x4-a1  | MGHTRRQGTSPSKCPYLKFFQLLVLAGLSHLCSGVIHVTKEVKEVATLSCGHNVSVVEELAQ<br>TRIIYWOKEKKMVLTMMSGDMNIWPEHKNRTIFDITNNLSIVILALRPSDEGTYESVVLKYE<br>KDAFKREHLAEVTLMSVKADFTPSTISDFEIPPSNIRRIICSTSGGFPEPHLSWLENGEELN<br>AINTTVSQDPGTETYTVSSKLDNFMTNRSFVCLIKYGLRVNQTFNWNTPKQEHF PDNLL<br>PSWAITLISVNGIFVICCLTYCFAPRCRERRRNERLRRESVRPV   |
| SEQ ID<br>NO:249 | Round 2<br>CTLA4<br>5x2-f3  | MSHTRRQGISPSKCPYLKFFQLLVLAGLSHLCSGVIHVTKEVKEVATLSCGHNVSVVEELAQ<br>TRIIYWOKEKKMVLTMMPGDMNIWPEYKNRTIFDITNNLSIVILALRPSDEGTYESVVLRYE<br>KDAFKREHLAEVTLMSVKADFTPSTISDFEIPPSNIRRIICSTSGGFPEPHLSWLENGEELN<br>AINTTASQDPETELYTVSSKLDNFMTNRSFVCLIKYGLRVNQTFNWNTPKQEHF PDNLL<br>PSWAITLISANGIFVICCLTHCFAPRCRERKSNERLRRESVRPV   |
| SEQ ID<br>NO:250 | Round 2<br>CTLA4<br>5x2-e12 | MSHTRRQGISPSKCPYLKFFQLLVLAGLSHLCSGVIHVTKEVKEVATLSCGHNVSVVEELAQ<br>TRIHWOKEKKMVLTMMSGDMNIWPEYKNRTIFDITNNLSIVILALRPSDEGTYESVVLKYE<br>KDAFKREHLAEVTLMSVKADFTPSTISDFEIPPSNIRRIICSTSGGFPEPHLSWLENGEELN<br>AISTTVSQDPGTETYAVSSKLDNFMTNRSFVCLIKYGLRVNQTFNWNTPKQEHF PDNLL<br>PSWAITLISVNGIFVICCLTYCFAPRCRERRRNERLRRESVRPV  |
| SEQ ID<br>NO:251 | Round 2<br>CTLA4<br>2x4-h11 | MGYTRRQGTSPSKCPYLKFFQLLVLAGLSHLCSGVIHVTKEVKEVATLSCGHNVSVVEELAQ<br>TRIIYWOKEKKMVLTMMSGDMNIWPEYKNRTIFDITNNLSIVILALRPSDEGTYESVVLRYE<br>KDAFKREHLAEVMSVKADFTPSTISDFEIPPSNIRRIICSTSGGFPEPHLSWLENGEELN<br>AINTTVSQDPGTETYAVSSKLDNFMTTNHSMCLIKYGLRVNQTFNWNTPKQEHF PDNLL<br>PSWAITLISVNGIFVICCLAYCFAPRCRGRRRNERLRRESVRPV   |
| SEQ ID<br>NO:252 | Round 2<br>CTLA4<br>2x3-h2  | MGHTRRQGTSPSKCPYLNFFQLLVLAGLSHLCSGVIHVTKEVKEVATLSCGHNVSVVEELAQ<br>TRIIYWOKEKKMVLTMMSGDMNIWPEYKNRTIFDITNNLSIVILALRPSDEGTYESVVLKYE<br>KDAFKREHLAEVMSVKADFTPSTISDFEIPPSNIRRIICSTPGGFPEPRLAWMEDGEELN<br>AISTTVSQDPGTETYAVSSKLDNFMTTNHSMCLIKYGLRVNQTFNWNTPKQEHF PDNLL<br>PSWAITLISVKGIFVICCLTYCFAPRWREKSNERLRRESVRPV  |
| SEQ ID<br>NO:253 | Round 2<br>CTLA4<br>A-H3-6  | ATGGGCCACACGCTGAGGCCGGGAACTCCACTGCCAGGTGTCTACACCTCAAGCTCTGCC<br>TGCTCTTGCGCTGGCGGGTCTCCACTTCTCTCAGGTATCAGCCAGGTACCAAGTCCGT<br>GAAAGAAATGGCAGCACTGTCTGTGATTACAACATTTCTATCGATGAACGTGGCAGAAATG<br>CGCATATACTGGCAGAAGGACCAACAGATGGTGTGAGCATCATCTCTGGGCAAGTGGAAAG<br>TGTGGCCTGAGTACAAAACCGCACCTTCCCCGACATCATTAACAACCTCTCCCTTATGAT<br>CCTGGCACTGCGCTGTGCGACAAGGGCACCTACACCTGCGTGGTTCAGAAGAATGAGAAC<br>GGGTCTTTTACAGCGGGAGCACCTGACCTCCGTGACACTGTCCATCAGAGCTGACTTCCCTG<br>TCCCTAGCATAAATGATCTTGAAATCCATCTCCTAATATCAGAAGGCTAATTTGCTCAAC<br>CTCTGGAGGTTTTTCAAGGCCACCTCTACTGGTTGGAAAATGGAGAAGAATTAAATGCT<br>ACCAACACAACACTGTCCCAAGATCCTGAAACCAAGCTCTACATGATTAGCAGTGAAGTGG<br>ATTTCAACATGACAAGCAATCAGAGCTTCTGTGTCTTGTCAAGTATGGAGACTTAACAGT<br>GTCACAGACCTTCTACTGGCAGAAGATCCAAACCAACCCCTTCTGCTAATCAGCACCTGACC |

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|                  |                             | TGGACCATTATTATCCAGTCTCAGCATTTGGGATTTCTGTGATCATTGCAGTTATACTAA<br>CATGCCTGACCTGCAGAAATGCTGCAATACGCAGACAGAGAAGGGAGAATGAAGTGGAAAT<br>GCAAAGTTGCTCTCAGTCTCCATGAG  |
| SEQ ID<br>NO:254 | Round 2<br>CTLA4<br>A-B11-5 | ATGGGTCACACAATGGAGTGGGGATCACTACCACCCAAGCGCCCATGCCTCTGGCTCTCTC<br>AGCTCTTGGTGCTCACTGGTCTTTTTTACTTCTGTTCAGGCATCACCCCAAAGAGTGCAGAC<br>CAAAAGAGTGAAAGAAACAGTAATGCTATCCTGTGATTACAGCACATCCACTGAAGAACTG<br>ACAAGCCTTCGGATCTATTGGCAAAAGGATAGTAAATGGTGCTGGCCATCCTGCCTGGAA<br>AAGTGCAGGTGTGGCCTGAGTACAAGAACCGCACCATCACTGACATGAACGATAACCCCGG<br>TATTGTGATCCTGGCTCTGCGCCTGTGCGACAGTGGCACCTACACCTGTGTATTTCAGAAG<br>CCTGATTTGAAAGGGGCTTATAAACTGGAGCACCTGACTTCCGTGAGGTTAATGATCAGAG<br>CTGACTTCCCTGTCCCTACCATAAATGATCTTGAAATCCATCTCCTAATATCAGAAGGCT<br>AATTTGCTCAACCTCTGGAGGTTTTTCCAAGGCCCCACCTCTACTGGTTGGAAAATGGAGAA<br>GAATTAATGCTACCAACACAACACTGTCCCAAGATCCTGAAACCAAGCTCTACATGATTA<br>GCAGTGAAGTGGATTTCAACATGACAAGCAATCACAGCTTCTTGTGTCTTGTCAAGTATGG<br>AGACTTAACAGTGTACAGACCTTCTACTGGCAAGAATCCAAACCAACCCCTTCTGCTAAT<br>CAGCACCTGACCTGGACCATTATTATCCAGTCTCAGCATTTGGGATTTCTGTGATCATTG<br>CAGTTATACTAACATGCCTGACCTGCAGAAATGCTGCAATACGCAGACAGAGAAGGGAGAA<br>TGAAGTGGAAATGCAAAGTTGCTCTCAGTCTCCATAG |
| SEQ ID<br>NO:255 | Round 2<br>CTLA4<br>A-E2-6  | ATGGGCCACACAATGAAGTGGGGATCACTACCACCCAAGCGCCCATGCCTCTGGCTCTCTC<br>AGCTCTTGGTGCTCACTGGTCTTTTTTACTTCTGTTCAGGCATCACCCCAAAGAGTGTGAC<br>CAAAAGAGTGAAAGAAACAGTAATGCTATCCTGTGATTACAACACATCCACTGAAGAACTG<br>ACAAGCCTTCGGATCTATTGGCAAAAGGATAGTAAATGGTGCTGGCCATCCTGCCTGGAA<br>AAGTGCAGGTGTGGCCTGAGTACAAGAACCGCACCATCACTGACATGAACGATAACCCCGG<br>TATTGTGATCCTGGCTCTGCGCCTGTGCGACAGTGGCACCTACACCTGCGTGGTTTCAAG<br>AATGAGAACGGGTCTTTTCAAGCGGAGCACCTGACCTCCGTGAGGTTAATGATCAGAGCTG<br>ACTTCCCTGTCCCTACCATAAATGATCTTGGAATCCATCTCCTAATATCAGAAGGCTAAT<br>TTGCTCAACCTCTGGAGGTTTTTCCAAGGCCCCACCTCTACTGGTTGGAAAATGGAGAAGAA<br>TTAAATGCTACCAACACAACACTGCCCAAGATCCTGAAACCAAGCTCTACATGATTAGCA<br>GTGAAGTGGATTTCAACATGACAAGCAATCACAGCTTCTTGTGTCTTGTCAAGTATGGAGA<br>CTTAACAGTGTACAGACCTTCTACTGGCAAGAATCCAAACCAACCCCTTCTGCTAATCAG<br>CACCTGACCTGGACCATTATTATCCAGTCTCAGCATTTGGGATTTCTGTGATCATTGCAG<br>TTATACTAACATGCCTGACCTGCAGAAATGCTGCAATACGCAGACAGAGAAGGGAGAATGA<br>AGTGGAAATGCAAAGTTGCTCTCAGTCTCCATGAG     |
| SEQ ID<br>NO:256 | Round 2<br>CTLA4<br>A-F1-6  | ATGGGTCACACAATGAAGTGGGGATCACTACCACCCAAGCGCCCATGCCTCTGGCTCTCTC<br>AGCTCTTGGTGCTCACTGGTCTTTTTTACTTCTGTTCAGGCATCACCCCAAAGAGTGTGAC<br>CAAAAGAGTGAAAGAAACAGTAATGCTATCCTGTGATTACAGCACATCCACTGAAGAACTG<br>ACAAGCCTTCGGATCTATTGGCAAAAGGATAGTAAATGGTGCTGGCCATCCTGCCTGGAA<br>AAGTGCAGGTGTGGCCTGAGTACAAGAACCGCACCATCACTGACATGAACGATAACCCCGG<br>TATTGTGATCCTGGCTCTGCGCCTGTGCGACAAGGGCACCTACACCTGCGTGGTTTCAAG<br>AATGAGAACGGGTCTTTTCAAGCGGAGCACCTGACTTCCGTGAGGTTAATGATCAGAGCTG<br>ACTTCCCTGTCCCTACCATAAATGATCTTGGAATCCATCTCCTAATATCAGAAGGCTAAT<br>TTGCTCAACCTCTGGAGGTTTTTCCAAGGCCCCACCTCTACTGGTTGGAAAATGGAGAAGAA<br>TTAAATGCTACCAACACAACACTGTCCCAAGATCCTGAAACCAAGCTCTACATGATTAGCA<br>GTGAAGTGGATTTCAACATGACAAGCAATCACAGCTTCTTGTGTCTTGTCAAGTATGGAGA<br>CTTAACAGTGTGCGAGACCTTCTACTGGCAAGAATCCAAACCAACCCCTTCTGCTAATCAG<br>CACCTGACCTGGACCATTATTATCCAGTCTCAGCATTTGGGATTTCTGTGATCATTGCAG<br>TTATACTAACATGCCTGACCTGCAGAAATGCTGCAATACGCAGACAGAGAAGGGAGAATGA<br>AGTGGAGATGCAAAGTTGCTCTCAGTCTCCATAG    |
| SEQ ID<br>NO:257 | Round 2<br>CTLA4<br>A-F6-9  | ATGGGTCACACAATGAAGTGGGGATCACTACCACCCAAGCGCCCATGCCTCTGGCTCTCTC<br>AGCTCTTGGTGCTCACTGGTCTTTTTTACTTCTGTTCAGGCATCACCCCAAAGAGTGTGAC<br>CAAAAGAGTGAAAGAAACAGTAATGCTATCCTGTGATTACAGCACATCCACTGAAGAACTG<br>ACAAGCCTTCGGATCTATTGGCAAAAGGATAGTAAATGGTGCTGGCCATCCTGCCTGGAA<br>AAGTGCAGGTGTGGCCTGAGTACAAGAACCGCACCATCACTGACATGAACGATAACCCCGG<br>TATTGTGATCCTGGCTCTGCGCCTGTGCGACAGTGGCACCTACACCTGTGTATTTCAGAAG<br>CCTGATTTGAAAGGGGCTTATAAACTGGAGCACCTGACTTCCGTGAGGTTAATGATCAGAG<br>CTGACTTCCCTGTCCCTACCATAAATGATCTTGGAATCCATCTCCTAATATCAGAAGGCT<br>AATTTGCTCAACCTCTGGAGGTTTTTCCAAGGCCCCACCTCTACTGGTTGGAAAATGGAGAA<br>GAATTAATGCTACCAACACAACACTGTCCCAAGATCCTGAAACCAAGCTCTACATGATTA<br>GCAGTGAAGTGGATTTCAACATGACAAGCAATCACAGCTTCTTGTGTCTTGTCAAGTATGG  |



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|                  |                             | AGACTTAACAGTGTACAGACCTTCTACTGGCAAGAATCCAAACCAACCCCTTCTGCTAAT<br>CAGCACCTGACCTGGACCATTATTATCCCAGTCTCAGCATTGTTGGGATTTCTGTGATCATTG<br>CAGTTATACTAACATGCCTGACCTGCAGAAATGCTGCAATACGCAGACAGAGAAGGGAGAA<br>TGAAGTGGAAATGCAAAGTTGCTCTCAGTCTCCATGA   |
| SEQ ID<br>NO:258 | Round 2<br>CTLA4<br>A-H4-5* | ATGGGTACACAAATGAAGTGGGGATCACTACCACCCAAGCGCCCATGCCTCTGGCTCTCTC<br>AGCTCTTGGTGCTCACTGGTCTTTTTTACTTCTGTTCAGGCATCACCCCAAAGAGTGTGAC<br>CAAAAGAGTGAAGAAACAGTAATGCTATCCTGTGATTACAGCACATCCACTGAAGAACTG<br>ACAAGCCTTCGGATCTATTGGCAAAAGGATAGTAAAATGGTGCTGGCCATCCTGCCTGGAA<br>AAGTGCAGGTGTGGCCTGAGTACAAGAACCGCACCATCACTGACATGAACGATAACCCCCG<br>TATTGTGATCCTGGCTCTGCGCCTGTGCGACAAGGGCACCTACACCTGCGTGGTTTCAAG<br>AATGAGAACGGGTCTTTTACAGCGGGAGCACCTGACCTCCGTGACACTGTCCATCAGAGCTG<br>ACTTCCCTGTCCCTAGCATAACTGACATTGGACATCCCGCCCCAATGTGAAAAGGATAAG<br>ATGCTCCGCTCTGGAGGTTTTCCAGAGCCTCGCCTCTACTGGTTGGAAAATGGAGAAGAA<br>TTAAATGCTACCAACACAACAGTTTCCCAAGATCCTGGAACAGCTCTACATGATTAGCA<br>GTGAACCTGGATTTCAATGTGACAAATAACCCACAGCATCGTGTGTCTCATCAATACGGGGA<br>GCTGTGCGGTGTACAGATCTTCCCTGGAGCAAAACCAAGCAGGAGCCTCCATTGATCAG<br>CTTCCATTCTGGGTCAATTATCCAGTAAGTGGTGTCTTGGTGCTCACTGCGGTAGTTCTCT<br>ACTGCTTGGCTGCAGACATGTTGCGAGGTGGAAAAGAACAAGAAGGAATGAAGAGACAGT<br>GGGAACCTGAAAGGCTGTCCCTTATCTACTTAGGCTCTGCGCAATCTCGGGCTGAG |
| SEQ ID<br>NO:259 | Round 2<br>CTLA4<br>A-B4-6  | ATGGATCACACAAATGAAGTGGGGATCACTACCACCCAAGCGCCCATGCCTCTGGCTCTCTC<br>AGCTCTTGGTGCTCACTGGTCTTTTTTACTTCTGTTCAGGCATCACCCCAAAGAGTGTGAC<br>CAAAAGAGTGAAGAAACAGTAATGCTATCCTGTGATTACAACACATCCACTGAAGAACTG<br>ACAAGCCTTCGGATCTATTGGCAAAAGGATAGTAAAATGGTGCTGGCCATCCTGCCTGGAA<br>AAGTGCAGGTGTGGCCTGAGTACAAGAACCGCACCATCACTGACATGAACGATAACCCCCG<br>TATTGTGATCCTGGCTCTGCGCCTGTGCGACAAGGGCACCTACACCTGCGTGGTTTCAAG<br>AATGAGAACGGGTCTTTTACAGCGGGAGCACCTGACCTCCGTGACACTGTCCATCAGAGCTG<br>ACTTTCCCTGTCCCTACCATAAATGATCTTGAAATCCATCTCCTAATATCAGAAGGCTAAT<br>TTGCTCAACCTCTGGAGGTTTTCCAAGGCCCCACCTCTACTGGTTGGAAAATGGAGAAGAA<br>TTAAATGCTACCAACACAACACTGTCCCAAGATCCTGAAACCAAGCTCTACATGATTAGCA<br>GTGAACCTGGATTTCAACATGACAAGCAATCACAGCTTCTTGTGTCTTGTCAAGTATGGAGA<br>CTTAACAGTGTACAGACCTTCTACTGGCAAGAATCCAAACCAACCCCTTCTGCTAATCAG<br>CACCTGACCTGGACCATTATTATCCCGGTCTCAGCATTGTTGGATTTCTGTGATCATTGCAG<br>TTATACTAACATGCCTGACCTGCAGAAATGCTGCAATACGCAGACAGAGAAGGGAGAATGA<br>AGTGGAAATGCAAAGTTGCTCTCAGTCTCCATAG               |
| SEQ ID<br>NO:260 | Round 2<br>CTLA4<br>A-F10-1 | ATGGGTACACAAATGAAGTGGGGATCACTACCACCCAAGCGCCCATGCCTCTGGCTCTCTC<br>AGCTCTTGGTGCCCACTGGTCTTTTTTACTTCTGTTCAGGTATCACCCCAAAGAGTGTGAC<br>CAAAAGAGTGAAGAAACAGTAATGCTATCCTGTGATTACAACACATCCACTGAAGAACTG<br>ACAAGCCTTCGGATCTATTGGCAAAAGGATAGTAAAATGGTGCTGGCCATCCTGCCTGGAA<br>AAGTGCAGGTGTGGCCTGAGTACAAGAACCGCACCATCACTGACATGAACGATAACCCCCG<br>TATTGTGATCCTGGCTCTGCGCCTGTGCGACAAGGGCACCTACACCTGCGTGGTTTCAAG<br>AATGAGAACGGGTCTTTTACAGCGGGAGCACCTGACCTCCGTGACACTGTCCATCAGAGCTG<br>ACTTCCCTGTCCCTACCATAAATGATCTTGAAATCCATCTCCTAATATCAGAAGGCTAAT<br>TTGCTCAACCTCTGGAGGTTTTCCAAGGCCCCACCTCTACTGGTTGGAAAATGGAGAAGAA<br>TTAAATGCTACCAACACAACACTGTCCCAAGATCCTGAAACCAAGCTCTACATGATTAGCA<br>GTGAACCTGGATTTCAACATGACAAGCAATCACAGCTTCTTGTGTCTTGTCAAGTATGGAGA<br>CTTAACAGTGTACAGACCTTCTACTGGCAAGAATCCAAACCAACCCCTTCTGCTAATCAG<br>CACCTGACCTGGACCATTATTATCCCAGTCTCAGCATTGTTGGATTTCTGTGATCATTGCAG<br>TTATACTAACATGCCTGACCTGCAGAAATGCTGCAATACGCAGACAGAGAAGGGAGAATGA<br>AGTGGAAATGCAAAGTTGCTCTCAGTCTCCATGA                 |
| SEQ ID<br>NO:261 | Round 2<br>CTLA4<br>A-G8-1  | ATGGGTACACAGTGAAGTGGGGATCACTACCACCCAAGCGCCCATGCCTCTGGCTCTCTC<br>AGCTCTTGGTGCTCACTGGTCTTTTTTACTTCTGTTCAGGCATCACCCCAAAGAGTGTGAC<br>CAAAAGAGTGAAGAAACAGTAATGCTATCCTGTGATTACAACACATCCACTGAAGAACTG<br>ACAAGCCTTCGGATCTATTGGCAAAAGGATAGTAAAATGGTGCTGGCCATCCTGCCTGGAA<br>AAGTGCAGGTGTGGCCTGAGTACAAGAACCGCACCATCACTGACATGAACGATAACCCCCG<br>TATTGTGATCCTGGCTCTGCCCCGTGCGGACAGTGGCACCTACACCTGTGTTATTTCAGAAG<br>CCTGATTTGAAAGGGGCTTATAAATGGAGCACCTGACTTCCGTGAGGTTAATGATCAGAG<br>CTGACTTCCCTGTCCCTACCATAAATGATCTTGAAATCCATCTCCTAATATCAGAAGGCT<br>AATTTGCTCAACCTCTGGAGGTTTTCCAAGGCCCCACCTCTACTGGTTGGAAAATGGAGAA<br>GAATTAATGCTACCAACACAACACTGTCCCAAGATCCTGAAACCAAGCTCTACATGATTA  |

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|                  |                             | GCAGTGAAGTGGATTTCAACATGACAAGCAATCACAGCTTCTTGTGTCTTGTCAAGTATGG<br>AGACTTAACAGTGTACAGACCTTCTACTGGCAAGAATCCAAACCAACCCCTTCTGCTAAT<br>CAGCACCTGACCTGGACCATTATTATCCCAGTCTCAGCATTTGGGATTTCTGTGATCATTG<br>CAGTTATACTAACATGCCTGACCTGCAGAAATGCTGCAATACGCAGACAGAGAAGGGAGAA<br>TGAAGTGGAAATGCAAAGTTGCTCTCAGTCTCCATGA  |
| SEQ ID<br>NO:262 | Round 2<br>CTLA4<br>A-C9-9  | ATGGGTCACACAATGAAGTGGGGATCACTACCACCCAAGCGCCCATGCCTCTGGCTCTCTC<br>AGCTCTTGGTGCTCACTGGTCTTTTTTACTTCTGTTCAGGCATCACCCCAAAGAGTGTGAC<br>CAAAAGAGTGAAAGAAACAGTAATGCTATCCTGTGATTACAGCACATCCACTGAAGAACTG<br>ACAAGCCTTCGGATCTATTGGCAAAGGATAGTAAATGGTGTGCGCCATCCTGCCTGGAA<br>AAGTGCAGGTGTGGCCTGAGTACAAAACCGCACCTTCCCCGACATCATTAACAACCTCTC<br>CCTTATGATCCTGGCACTGCGCCTGTGCGACAGGGGCACCTACACCTGCGTGGTTCAGAAG<br>AATGAGAACGGGTCTTTTACAGACGGGAGCACCTGACCTCCGTGACACTGTCCATCAGAGCTG<br>ACTTCCCTGTCCCTAGCATAACTGACATTGGACATCCCGCCCCCTAATGTGAAAAGGATAAG<br>ATGCTCCGCTCTGAGAGTTTCCAGAGCCTCGCTCGCTGGATGGAAGATGGAGAAGAA<br>CTAAACGCCGTCAACACGACGGTTGACCAGGATTGGACACGGAGCTCTACAGCGTCCGCA<br>GTGAAGTGGATTTCAATGTGACAAATAACACAGCATCGTGTGTCTCATCAATACGGGGA<br>GCTGTGCGGTGTACAGATCTTCCCTTGGAGCAAACCCAAGCAGGAGCCTCCCATGATCAG<br>CTTCCATTCTGGGTCAATTATCCAGTAAGTGGTGTCTTGGTGTCTACTGCGGTAGTTCTCT<br>ACTGCCTGGCCCGCAGACATGTTGCGAGGTGAAAAGAACAAGAAGGAATGAAGAGACAGT<br>GGGAAGTGAAGGCTGTCCCTATCTACTTAGGCTCTGCGCAATCCTCGGGCTGAG |
| SEQ ID<br>NO:263 | Round 2<br>CTLA4<br>A-H3-6  | MGHTLRPTPLPRCLHLKLCLLLALAGLHFSSGISQVTKSVKEMAALSCDYNISIDELARM<br>RIYWQKDDQMVLSIIISQVEVWPEYKNRTFPDIINNLSLMILALRLSDKGYTCVVQKNEN<br>GSFRREHLTSVTLIRADFPVPSINDLGNPSPNIRRLICSTSGGFPRPHLYWLENGEELNA<br>TNTTSLQDPETKLYMISSELDNMTSNHSFLCLVKYGDLTVSQTFYWQESKPTPSANQHLT<br>WTIIIPVSAFGISVIIIAVILTCLTCRNAAIRRQRRENEVEMQSCSQSP   |
| SEQ ID<br>NO:264 | Round 2<br>CTLA4<br>A-B11-5 | MGHTMEWGSLLPPKRPLWLSQLLVLTGLFYFCSGITPKSVTKRVKETVMLSCDYSTSTEEL<br>TSLRIYWQKDSKMLAILPGKVQVWPEYKNRTITDMNDNPRIVILALRLSDSGTYTCVQK<br>PDLKGAYKLEHLTSVRLMIRADFPVPTINDLGNPSPNIRRLICSTSGGFPRPHLYWLENGE<br>ELNATNTTSLQDPETKLYMISSELDNMTSNHSFLCLVKYGDLTVSQTFYWQESKPTPSAN<br>QHLTWTIIIPVSAFGISVIIIAVILTCLTCRNAAIRRQRRENEVEMQSCSQSP  |
| SEQ ID<br>NO:265 | Round 2<br>CTLA4<br>A-E2-6  | MGHTMKWGSLLPPKRPLWLSQLLVLTGLFYFCSGITPKSVTKRVKETVMLSCDYNTSTEEL<br>TSLRIYWQKDSKMLAILPGKVQVWPEYKNRTITDMNDNPRIVILALRLSDSGTYTCVVQK<br>NENGSRREHLTSVRLMIRADFPVPTINDLGNPSPNIRRLICSTSGGFPRPHLYWLENGE<br>LNATNTTLPQDPETKLYMISSELDNMTSNHSFLCLVKYGDLTVSQTFYWQESKPTPSANQ<br>HLTWTIIIPVSAFGISVIIIAVILTCLTCRNAAIRRQRRENEVEMQSCSQSP  |
| SEQ ID<br>NO:266 | Round 2<br>CTLA4<br>A-F1-6  | MGHTMKWGSLLPPKRPLWLSQLLVLTGLFYFCSGITPKSVTKRVKETVMLSCDYSTSTEEL<br>TSLRIYWQKDSKMLAILPGKVQVWPEYKNRTITDMNDNPRIVILALRLSDKGYTCVVQK<br>NENGSRREHLTSVRLMIRADFPVPTINDLGNPSPNIRRLICSTSGGFPRPHLYWLENGE<br>LNATNTTSLQDPETKLYMISSELDNMTSNHSFLCLVKYGDLTVSQTFYWQESKPTPSANQ<br>HLTWTIIIPVSAFGISVIIIAVILTCLTCRNAAIRRQRRENEVEMQSCSQSP   |
| SEQ ID<br>NO:267 | Round 2<br>CTLA4<br>A-F6-9  | MGHTMKWGSLLPPKRPLWLSQLLVLTGLFYFCSGITPKSVTKRVKETVMLSCDYSTSTEEL<br>TSLRIYWQKDSKMLAILPGKVQVWPEYKNRTITDMNDNPRIVILALRLSDSGTYTCVQK<br>PDLKGAYKLEHLTSVRLMIRADFPVPTINDLGNPSPNIRRLICSTSGGFPRPHLYWLENGE<br>ELNATNTTSLQDPETKLYMISSELDNMTSNHSFLCLVKYGDLTVSQTFYWQESKPTPSAN<br>QHLTWTIIIPVSAFGISVIIIAVILTCLTCRNAAIRRQRRENEVEMQSCSQSP  |
| SEQ ID<br>NO:268 | Round 2<br>CTLA4<br>A-H4-5* | MGHTMKWGSLLPPKRPLWLSQLLVLTGLFYFCSGITPKSVTKRVKETVMLSCDYSTSTEEL<br>TSLRIYWQKDSKMLAILPGKVQVWPEYKNRTITDMNDNPRIVILALRLSDKGYTCVVQK<br>NENGSRREHLTSVTLIRADFPVPSITDIGHAPAPNVKIRCSASGGFPEPRLYWLENGE<br>LNATNTTVSQDPGTELYMISSELDNMTSNHSFLCLVKYGDLTVSQTFYWQESKPTPSANQ<br>LPFWVIIIPVSGALVLTAVVLYCLACHVARWKRTRNEETVGTERLSPIYLGSAQSSG   |
| SEQ ID<br>NO:269 | Round 2<br>CTLA4<br>A-B4-6  | MDHTMKWGSLLPPKRPLWLSQLLVLTGLFYFCSGITPKSVTKRVKETVMLSCDYNTSTEEL<br>TSLRIYWQKDSKMLAILPGKVQVWPEYKNRTITDMNDNPRIVILALRLSDKGYTCVVQK<br>NENGSRREHLTSVTLIRADFPVPTINDLGNPSPNIRRLICSTSGGFPRPHLYWLENGE<br>LNATNTTSLQDPETKLYMISSELDNMTSNHSFLCLVKYGDLTVSQTFYWQESKPTPSANQ<br>HLTWTIIIPVSAFGISVIIIAVILTCLTCRNAAIRRQRRENEVEMQSCSQSP  |
| SEQ ID<br>NO:270 | Round 2<br>CTLA4<br>A-F10-1 | MGHTMKWGSLLPPKRPLWLSQLLVPTGLFYFCSGITPKSVTKRVKETVMLSCDYNTSTEEL<br>TSLRIYWQKDSKMLAILPGKVQVWPEYKNRTITDMNDNPRIVILALRLSDKGYTCVVQK<br>NENGSRREHLTSVTLIRADFPVPTINDLGNPSPNIRRLICSTSGGFPRPHLYWLENGE<br>LNATNTTSLQDPETKLYMISSELDNMTSNHSFLCLVKYGDLTVSQTLYWQESKPTPSANQ  |

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|                  |                            | HLTWIIIPVSFAFGISVIIAVILTCLTCRNAAIRRQRRENEVEMQSCSQSP   |
| SEQ ID<br>NO:271 | Round 2<br>CTLA4<br>A-G8-1 | MGHTVKWGSLLPKRPLWLSQLLVLTGLFYFCSGITPKSVTKRVKETVMLS CDYNTSTEEL<br>TSLRIYWQKDSKMLAILPGKVQVWPEYKNRTITDMNDNPRIVILALPLSDSGTYTCVIQK<br>PDLKGAYKLEHLTSVRLMIRADFPVPTINDLGNPSPNIRRLICSTSGGFPRPHLYWLENGE<br>ELNATNTTLSQDPETKLYMISSELDNFMTSNHSFLCLVKYGDLTVSQTFYWQESKPTPSAN<br>QHLTWIIIPVSFAFGISVIIAVILTCLTCRNAAIRRQRRENEVEMQSCSQSP   |
| SEQ ID<br>NO:272 | Round 2<br>CTLA4<br>A-C9-9 | MGHTMKWGSLLPKRPLWLSQLLVLTGLFYFCSGITPKSVTKRVKETVMLS CDYSTSTEEL<br>TSLRIYWQKDSKMLAILPGKVQVWPEYKNRTFPDIINNLSLMILALRLSDRGTYTCVVQK<br>NENGSRREHLTSVTL SIRADFPVPSITDIGHAPNVKRI RCSASGGFPEPRLAWMEDGEE<br>LNAVNTTVDQDLDELYSVGSELDFNVTNNHSIVCLIKYGELSVSQIFPWSKPKQEPPIDQ<br>LPFWIIIPVSGALVLTAVVLYCLARRHVARWKRTRRNEETVGTERTLSPIYLGSAQSSG   |
| SEQ ID<br>NO:273 | Human B7-<br>1             | ATGGGCCACACACGGAGGCAGGGAACATCACCATCCAAGTGTCATACCTCAATTTCTTTC<br>AGCTCTTGGTGCTGGCTGGTCTTTCTCATTCTGTTCAGGTGTTATCCACGTGACCAAGGA<br>AGTGAAAGAAGTGGCAACGCTGTCTGTGGTCACAATGTTTCTGTTGAAGAGCTGGCACAA<br>ACTCGCATCTACTGGCAAAAGGAGAAGAAAATGGTGCTGACTATGATGTCTGGGGACATGA<br>ATATATGGCCCGAGTACAAGAACCGGACCATCTTTGATATCACAATAACCTCTCCATTGT<br>GATCCTGGCTCTGCGCCCATCTGACGAGGGCACATACGAGTGTGTTGTTCTGAAGTATGAA<br>AAAGACGCTTTCAGCGGGAACACCTGGCTGAAGTGACGTTATCAGTCAAAGCTGACTTCC<br>CTACACCTAGTATATCTGACTTTGAAATTCCAACCTCTAATATTAGAAGGATAATTTGCTC<br>AACCTCTGGAGGTTTCTCTGAGCCTCACCTCTCCTGGCTGGAAAATGGAGAAGAATTAAT<br>GCCATCAACACACAGTTTCCCAAGATCCTGAAACTGAGCTCTATGCTGTTAGCAGCAAAAC<br>TGGATTTCAATATGACAACCAACACAGCTTCATGTGTCTCATCAAGTATGGACATTTAAG<br>AGTGAATCAGACCTTCAACTGGAATACAACCAAGCAAGAGCATTTCCTGATAACCTGCTC<br>CCATCCTGGGCCATTACCTTAATCTCAGTAAATGGAATTTTGTGATATGCTGCCTGACCT<br>ACTGCTTTGCCCAAGATGCAGAGAGAGAAGGAGGAATGAGAGATTGAGAAGGGAAAGTGT<br>ACGCCCTGTATGA                           |
| SEQ ID<br>NO:274 | Rhesus<br>B7-1             | ATGGGCCACACACGGAGGCAGGAAATATCACCATCCAAGTGTCATACCTCAAGTTCTTTC<br>AGCTCTTGGTGCTGGCTTGTCTTTCTCATTCTGTTCAGGTGTTATCCACGTGACCAAGGA<br>AGTGAAAGAAGTGGCAACGCTGTCTGTGGTCACAATGTTTCTGTTGAAGAGCTGGCACAA<br>ACTCGCATCTACTGGCAAAAGGAGAAGAAAATGGTGCTGACTATGATGTCTGGGGACATGA<br>ATATATGGCCCGAGTACAAGAACCGGACCATCTTTGATATCACAATAACCTCTCCATTGT<br>GATTCTGGCTCTGCGCCCATCTGACGAGGGCACATACGAGTGTGTTGTTCTGAAGTATGAA<br>AAAGATGCTTTCAAGCGGGAACACCTGGCTGAAGTGATGTTATCCGTCAAAGCTGACTTCC<br>CTACACCTAGTATAACTGACTCTGAAATTCCACCTTCTAACATTAGAAGGATAATTTGCTC<br>AAACTCTGGAGGTTTTCAGAGCCTCACCTCTCCTGGTTGGAAAATGGAGAAGAATTAAT<br>GCCATCAGCACACAGTTTCCCAAGATCCTGAAACTGAGCTCTATACTGTTAGCAGCAAAAC<br>TGGATTTCAATATGACAACCAATCAGTTTTCATGTGTCTCATCAAGTATGGACATTTAAG<br>AGTGAATCAGACCTTCAACTGGAACACACCCAAGCAAGAGCATTTCCTGATAACCTGCTC<br>CCATCCTGGGCCATTATCCTAATCTCAGTAAATGGAATTTTGTGATATGCTGCCTGACCT<br>ACTGTTTTGCCCAAGGTGCAGAGAGAGAAGAAGGAATGAGACATTGAGAAGGGAAAGTGT<br>ACGCCCTGTATGA                           |
| SEQ ID<br>NO:275 | Bovine<br>B7-1<br>(cow)    | ATGGGTCACACAATGAAGTGGGGAACACTACCACCCAAGCGCCCATGCCTCTGGCTCTCTC<br>AGCTCTTGGTGCTCACTGGTCTTTTTTACTTCTGTTCAGGCATCACCCCAAGAGTGTGAC<br>CAAAAGAGTGAAAGAAACAGTAATGCTATCCTGTGATTACAACACATCCACTGAAGAACTG<br>ACAAGCCTTCGGATCTATTGGCAAAAGGATAGTAAATGGTGCTGGCCATCCTGCCTGGAA<br>AAGTGACAGGTGTGGCCTGAATACAAGAACCGCACCATCACTGACATGAACGATAACCCCCG<br>CATTGTGATCCTGGCTCTGCGCCTGTCCGACAGTGGCACCTACACCTGTGTTATTCAGAAG<br>CCTGATTTGAAAGGGGCTTATAAATGGAGCACCTGACTTCCGTGAGGTTAATGATCAGAG<br>CTGACTTCCCTGTCCCTACCATAAATGATCTTGGAATCCATCTCCTAATATCAGAAGGCT<br>AATTTGCTCAACCTCTGGAGGTTTTCCAAGGCCCCACCTCTACTGGTTGGAAAATGGAGAA<br>GAATTAATGCTACCAACACAACACTGTCCCAAGATCCTGAAACCAAGCTCTACATGATTA<br>GCAGTGAACCTGGATTTCACATGACAAGCAATCACAGCTTCTTGTGTCTTGTCAAGTATGG<br>AGACTTAACAGTGTACAGACCTTCTACTGGCAAGAATCCAAACCAACCCCTTCTGCTAAT<br>CAGCACCTGACCTGGACCATTATTATCCAGTCTCAGCATTGTTGGGATTTCTGTGATCATTG<br>CAGTTATACTAACATGCCTGACCTGCAGAAATGTGCAATACGCAGACAGAGAAGGGAGAA<br>TGAAGTGGAAATGGAAAGTTGCTCTCAGTCTCCA |
| SEQ ID<br>NO:276 | Rabbit<br>B7-1             | ATGGGCCACACGCTGAGGCGGGGAACCTCCACTGCCAGGTGTCTACACCTCAAGCTCTGCC<br>TGCTCTTGGCGCTGGCGGGTCTCCACTTCTCTCAGGTATCAGCCAGGTACCAAGTCGGT<br>GAAAGAAATGGCAGCACTGTCTGTGATTACAACATTTCTATCGATGAACCTGGCGAGAATG   |

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|                  |   | CGCATATACTGGCAGAAGGACCAACAGATGGTGCTGAGCATCATCTCTGGGCAAGTGGAAG<br>TGTGGCCTGAGTACAAGAACCACCTTCCCCGACATCATTAACAACCTCTCCCTTATGAT<br>CCTGGCACTGCGCCTGTGCGACAAGGGACCTACACCTGCGTGGTTTCAAGAATGAGAAC<br>GGTCTTTTCAGACGGGAGCACCTGACCTCCGTGACACTGTCCATCAGAGCTGACTTCCCTG<br>TCCCTAGCATAAAGTACATTGGACATCCCGACCCTAATGTGAAAAGGATAAGATGCTCCGC<br>CTCTGGAGGTTTTCCAGAGCCTCGCCTCGCTGGATGGAAGATGGAGAAGAACTAAACGCC<br>GTCAACACGACGGTTGACCAGGATTTGGACACGGAGCTCTACAGCGTCAGCAGTGAAGTGG<br>ATTTCAATGTGACAAATAACCACAGCATCGTGTGTCTCATCAAATACGGGGAGCTGTCCGT<br>GTCACAGATCTTCCCTTGGAGCAAACCCAAGCAGGAGCCTCCCATTGATCAGCTTCCATT<br>TGGGTCAATATCCAGTAAGTGGTGCTTTGGTGCTCACTGCGGTAGTTCTCTACTGCCTGG<br>CCTGCAGACATGTTGCGAGGTGGAAGAACAAGAAGGAATGAAGAGACAGTGGGAACGA<br>AAGGCTGTCCCTATCTACTTAGGCTCTGCGCAATCCTCGGGCTGA  |
| SEQ ID<br>NO:277 | Cat B7-1  | ATGGGTCACGCAGCAAAGTGGAACACCACTACTGAAGCACCCATATCCCAAGCTCTTTC<br>CGCTCTTGATGCTAGCTAGCTTTTTTACTTCTGTTTCAGGTATCATCCAGGTGAACAAGAC<br>AGTGGAAGAGTAGCAGTACTATCTGTGATTACAACATTTCCACCAAAGAAGTACGGAA<br>ATTGCAATCTATTGGCAAAGGATGATGAAATGGTGTGGCTGTCTGTGGCAAAGTAC<br>AAGTGTGGCCCAAGTACAAGAACCGCACATTTACTGACGTCACCGATAACCACTCCATTGT<br>GATCATGGCTCTGCGCCTGTGACACAATGGCAAATACACTTGTATTATTCAAAGATTGAA<br>AAAGGCTCTTACAAGTGAAACACCTGACTTCGGTGATGTTATTGGTCAGAGCTGACTTCC<br>CTGTCCCTAGTATAAAGTATGCTTTGGAAATCCATCTCATAACATCAAAGGATAATGTGCTT<br>AACTTCTGGAGGTTTTCCAAAGCCTCACCTCTCCTGGCTGGAAAATGAAGAAGATAAAT<br>GCCATCAACACAACAGTTTCCCAAGTACCTGAACTGAGCTCTACACTATTGACAGTGAAC<br>TGATTTTCAATATGACAAACAACCATAGCTTCTGTGTCTTGTCAAGTATGGAACCTTACT<br>AGTATCACAGATCTTCAACTGGCAAAAATCAGAGCCACAGCCTTCTAATAATCAGCTCTGG<br>ATCATTATCCTGAGCTCAGTAGTAAGTGGGATTGTTGTGATCACTGCACTTACCTTAAGAT<br>GCCTAGTCCACAGACCTGCTGCAAGGTGGAGACAAAGAGAAATGGGGAGAGCGCGGAAATG<br>GAAAAGATCTCACCTGTCTACATAGATTCTGCAGAACCCTGTATGCAGAGCATCTGGAGG<br>TAGCCTCTTTAGCTCTTCTCTACTAG |
| SEQ ID<br>NO:278 | Human B7-1 (signal<br>sequence<br>underline<br>d) | MGHTRRQGTSPSKCPYLNFQLLVLGLSHFCSGVIHVTKEVKEVATLSCGHNVSVEELAQ<br>TRIYWQKEKMLVLTMMSGDMNIWPEYKNRTIFDITNNLSIVILALRPSDEGTYECVVLKYE<br>KDAFKREHLAEVTLVKADFPPTSIDFEIPTSNIRRIICSTSGGFPEPHLSWLENGEELN<br>AINTTVSQDPETELYAVSSKLDNFNMTNHSFMCLIKYGHRLVNQTFNWNTPKQEHFPDNL<br>PSWAITLISVNGIFVICCLTYCFAPRCRERRRNERLRRESVRPV   |
| SEQ ID<br>NO:279 | Rhesus<br>B7-1                                    | MGHTRRQGISPSKCPYLKFFQLLVLACLHLCSGVIHVTKEVKEVATLSCGHNVSVEELAQ<br>TRIYWQKEKMLVLTMMSGDMNIWPEYKNRTIFDITNNLSIVILALRPSDEGTYECVVLKYE<br>KDAFKREHLAEVTLVKADFPPTSIDFEIPPSNIRRIICSTSGGFPEPRLSWLENGEELN<br>AISTTVSQDPETELYTVSSKLDNFNMTNHSFMCLIKYGHRLVNQTFNWNTPKQEHFPDNL<br>PSWAITLISVNGIFVICCLTHCFAPRCRERRRNETLRRESVRPV  |
| SEQ ID<br>NO:280 | Bovine<br>B7-1                                    | MGHTMKWGSLLPPKRPCLWLSQLLVLTGLFYFCSGITPKSVTKRVKETVMLS CDYNTSTEEL<br>TSLRIYWQKDSKMLVLAIPGKVQVWPEYKNRTITDMNDNPRIVILALRLSDGTYTCVIQK<br>PDLKGAYKLEHLTSVRLMIRADFPVPTINDLGNPSPNIRRLICSTSGGFPRPHLYWLENGE<br>ELNATNTTVSQDPETKLYMISSELDNFNMTNHSFCLVLYGDLTVSQTIFYWQESKPTPSAN<br>QHLTWITIIIPVSAGFISVIIIAVILTCLTCRNAAIRQRRENEVEMQSCSQSP  |
| SEQ ID<br>NO:281 | Rabbit<br>B7-1                                    | MGHTLRPGTPLPRCLHLKLCLLLALAGLHFSSGISQVTKSVKEMAALSCDYNISIDELARM<br>RIYWQKDDQMVLSIIISGQVEVWPEYKNRTFPDIINNLSLMILALRLSDGTYTCVQKNEN<br>GSFRREHLTSVTLIRADFPVPSITDIGHAPNVKRIKRSASGGFPEPRLAWMEDGEELNA<br>VNTTVQDQDLDELYSVSSELDNFNMTNHSIVCLIKYGELSVSQIFPWSKPKQEPPIQPLF<br>WV IIPVSGALVLTAVVLYCLACRHVARWKRTRNEETVGTERLSPIYLGSAQSSG   |
| SEQ ID<br>NO:282 | Cat B7-1  | MGHAAKWKTPLLKHPYKFLPLMLASLFYFCSGIIQVNKTVEEAVLSCDYNISTKELTE<br>IRIYWQKDDDEMVLAVMSGKVQVWPKYKNRTFTDVTDNHSIVIMALRLSDNGKYTCIIQKIE<br>KGSYKVKHLTSVMLLRADFPVPSITDLGNPSHNIKRTMCLTSGGFPKPHLSWLENGEELN<br>AINTTVSQDPETELYTISSELDNFNMTNHSFCLVLYGNLLVSQIFNWKSEPPQPSNNQLW<br>IIILSSVSGIVVITALTLRCLVHRPAARWRQREMGRARKWKRSHLST   |
| SEQ ID<br>NO:283 | CD28BP<br>Consensus                               | MGHTMKWGSLLPPKRPCLWLSQLLVLTGLFYFCSGITPKSVTKRVKETVMLS CDYNTSTEEL<br>TSLRIYWQKDSKMLVLAIPGKVQVWPEYKNRTITDMNDNPRIVILALRLSDGTYTCVIQK<br>PVLKGAYKLEHLASVRLMIRADFPVPTINDLGNPSPNIRRLICSTSGGFPRPHLYWLENGE<br>ELNATNTTVSQDPDELYMISSELDNFNMTNHSIVCLIKYGELSVSQIFPWSKPKQEPPIQ<br>QLPFWV IIPVSGALVLTAVVLYCLACRHVARWKRTRNEETVGTERLSPIYLGSAQSSG   |
| SEQ ID           | CD28BP  | MGHTMXWXSLLPPKXPCLXXXQLLVLTGLFYFCSGITPKSVTKRVKETVMLS CDYXTSTEXL   |

|                  |                      |  |
|------------------|----------------------|--|
| NO:284           | CGformC              | TSLRIYWXXKDSKMLAILPGKVQVWPEYKNRTITDMNDNXRIVIXALRXSDXGTYTCVXQK<br>PXLKGAYKLEHLXSVRLMIRADFPVPPXXDLGNPSPNIRRLICSXXXGFPRPHLXLWLENGE<br>ELNATNTTXSQDPXTXLYMISSELXFNVTNNXSIXCLIKYGELXVSQIFPWSKPKQEPPIID<br>QLPFXVIIIPVSGALVLAAXVLYXXACRHXARWKRRRNEETVGTERLSPIYLGSAQSSG   |
| SEQ ID<br>NO:285 | CD28BP<br>CG1c       | MGHTMKWRSPLPPKRPCLWPSQLLVLTDLFYFCSGITPKSVTKRVKETVMLSCDYNTSTEEL<br>TSLRIYWQKDSKMLAILPGKVQVWPEYKNRTITDMNDNPRIVILALRPSDKGTYTCVVQK<br>PVLKGAYKLEHLTSVRLMIRADFPVPTINDLGNPSPNIRRLICSTSGGFPRPHLXLWLENGE<br>ELNATNTTVSQDPGETELYMISSELGFNVTNNHSIACLIKYGELSVSQIFPWSKPKQEPPIID<br>QLPFWVIIIPVSGALVLAADVLYRPACRHRGAWKRRRNEETVGTERLSPIYLGSAQSSG |
| SEQ ID<br>NO:286 | CTLA4BP<br>Consensus | MGHTRRQGISPSKCPYLKFFQLLVLAACLSHFCSGVIHVTKEVKEVATLSCGHNVSVEELAQ<br>TRIHWWQKEKKMVLTMMSGDMNIWPEYKNRTIFDITNNLSIVILALRPSDEGTYECVVLKYE<br>KDAFKREHLAEVMSVKADFPPTSIDFEIPPSNIRRIICSTSGGFPEPHLSWLENGEELN<br>AINTTVSQDPETELYTVSSKLDNFMTNHSFMCLIKYGHRLRVNQTFNWNTPKQEHFPDNL<br>PSWAITLISVNGIFVICCLTYCFAPRCRERRRNERLRRESVRPV                    |
| SEQ ID<br>NO:287 | CTLA4BP<br>CGform    | MGHTRRQGTSPSKCPYLKFFQLLVLAACLSHLCSGVIHVTXEVKEVATLSCGLNVSVEELAQ<br>TRIHWWQKEKKMVLTMMSGDMNIWPEYKNRTIFDITNNLSIVILALRPSDEGTYECVVLKYX<br>KDAFKRXHLAEVMSVKADFPPTSIDFEIPPSNIRRIICSTSGGFPEPHLFWLENGEELN<br>AINTTVSQDPETXLYTVSSKLDNFMTANHSFMCLIXYGHRLRVNQTFNWNTPKQEHFPXNLL<br>PSWAITLISANGIFVICCLTYRFAPRCRERKSNETLRRESVCPV                  |
| SEQ ID<br>NO:288 | CTLA4BP<br>CG1       | MGHTRRQGTSPPECPYLKFFQLLVMAACLPHLCSGVIHVTREVKEVATLPCGLNVSVEELAQ<br>TPIHWQKEKKMVLTMMSGDMNIWPEYKNRTIFDITNNLSIVILALRPSDEGTYECVVLKYD<br>KDAFKQKHLAEVMSVKADFPPTSIDFEIPPSNIKRIICSTSGGFPEPHLFWLENGEELN<br>AINTTVSQDPETGLYTVSSKLDNFMTADHNFMLIRYGHRLRVNQTFNWNTPKQEHFPNNPL<br>PSWAITLISANGIFVICCPTYRFAPRCRERKSNETLRRESVCPV                    |
| SEQ ID<br>NO:289 | CTLA4BP<br>CG2       | MGHTRRQGTSPSKCPYLKFFQLLVLAACLSHLCSGVIHVTKEVKEVATLSCGLNVSVEELAQ<br>TRIHWWQKEKKMVLTMMSGDMNIWPEYKNRTIFDITNNLSIVILALRPSDEGTYECVVLKYE<br>KDAFKREHLAEVMSVKADFPPTSIDFEIPPSNIRRIICSTSGGFPEPHLFWLENGEELN<br>AINTTVSQDPETELYTVSSKLDNFMTANHSFMCLIKYGHRLRVNQTFNWNTPKQEHFPDNL<br>PSWAITLISANGIFVICCLTYRFAPRCRERKSNETLRRESVCPV                   |
| SEQ ID<br>NO:290 | CD28BP<br>CGformD    | MGHTMKWGSLLPPKRPCLWLSQLLVLTGLFYFCSGITPKSVTKRVKETVMXSCDYXXSTEEL<br>TSLRIYWQKDSKMLAILPGKVQVWPEYKNRTITDMNDNPRIVILALRLSDXGTYTCVXQK<br>XXXXGXXXXEHLXSVXLXIRADFPVPSITDIGHAPNVKRIKRSASGXFPPEPLAWMEDGE<br>ELNAVNTTVXXLDTELYSVSSELDXNXTNNHSIVCLIKYGELSVSQIFPWSKPKQEPPIID<br>QLPFWVIXXVSGALVLTAVVLYCLACRHVAR                                 |
| SEQ ID<br>NO:291 | CD28BP<br>CG1d       | MGHTMKWGSLLPPKRPCLWLSQLLVLTGLFYFCSGITPKSVTKRVKETVMLSCDYNASTEEL<br>TSLRIYWQKDSKMLAILPGKVQVWPEYKNRTITDMNDNPRIVILALRLSDSGTYTCVIQK<br>PVLKGAYKLEHLASVRLMIRADFPVPSITDIGHAPNVKRIKRSASGDFPEPLAWMEDGE<br>ELNAVNTTVQDQDLDELYSVSSELDXNVTNNHSIVCLIKYGELSVSQIFPWSKPKQEPPIID<br>QLPFWVIIIPVSGALVLTAVVLYCLACRHVAR                                |
| SEQ ID<br>NO:292 | CD28BP<br>CGformB    | MGHTMKWGXLLPPKRPCLWLSQLLVLTGLFYFCSGXTPKSVTKRVKETVMLSCDYXTSTEEL<br>TSLRIYWQKDSKMLAILPGKVQVWPEYKNRTITDMNDNPRIVILALRXSDSGTYTCVIQK<br>PXLKGAYKLEHLXSVRLMIRADFPVPTINDLGNPSPNIRRLICSTSGGFPRPHLYWLENGX<br>ELNATNTTXSQDPETKLYMISSELDXNXTNNHSIVCLIKYGELSVSQIFPWSKPKQEPPIID<br>QHLTWIIIPVSAFGISVIAVILTCLTCRNAAIRQRRENEVXMXSCSQSP             |
| SEQ ID<br>NO:293 | CD28BP<br>CG1b       | MGHTMKWGTLPKRPCLWLSQLLVLTGLFYFCSGITPKSVTKRVKETVMLSCDYNTSTEEL<br>TSLRIYWQKDSKMLAILPGKVQVWPEYKNRTITDMNDNPRIVILALRLSDSGTYTCVIQK<br>PDLKGAYKLEHLTSVRLMIRADFPVPTINDLGNPSPNIRRLICSTSGGFPRPHLYWLENGK<br>ELNATNTTTLSDQDPETKLYMISSELDXNMTSNHSFLCLVYKGDLTVSQTFYWQESKPTPSAN<br>QHLTWIIIPVSAFGISVIAVILTCLTCRNAAIRQRRENEVKMESCSQSP              |